POOR LEGIBILITY

ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ
DUE TO THE QUALITY OF THE ORIGINAL

SY.G91-0624
105.263

Pacific Operations
Los Angeles

5785 Corporate Avenue
Suite 150
Cypress, CA 90630
(714) 229-4806
Fax (714) 229-4805

Clayton
ENVIRONMENTAL
CONSULTANTS

December 18, 1991

Mr. Sam Yu
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91755

Clayton Project No. 33043.00
CRWQCB File No. AB105.263

Subject: Transmittal of Fourth (Annual) Quarterly Groundwater Monitoring Report for Stoody Company, 16425 East Gale Avenue, Industry, California

Dear Mr. Yu:

On behalf of Stoody Company, Clayton Environmental Consultants, Inc. is pleased to present four copies of the fourth (annual) quarterly groundwater monitoring for the Stoody Company facility for the 1991 year for your review and approval.

If you have any questions or comments, please call Mr. David Randell or me at (714) 229-4806.

Sincerely,

Andre LaMontagne
Geologist

Reviewed by:

David H. Randell, R.G.
Manager, Environmental Engineering
Pacific Operations

AL
cc: Jaswant Singh, Ph.D., Director, Pacific Operations
Christopher Paule, Director, Thermadyne Industries Inc.

Enclosure

33043-Q4.REP

Pacific Operations
Los Angeles

5785 Corporate Avenue
Suite 150
Cypress, CA 90630
(714) 229-4806
Fax (714) 229-4805

Clayton
ENVIRONMENTAL
CONSULTANTS

Fourth (Annual) Quarter Groundwater Monitoring at Stoody Company City of Industry, California

Clayton Project No. 33043.00

December 18, 1991

CONTENTS

1.0 INTRODUCTION

On December 26, 1990, Ms. Nicole Jafari, Industrial Engineer with Stoody Company, authorized Clayton Environmental Consultants, Inc. to perform groundwater monitoring events required by the California Regional Water Quality Control Board Los Angeles Region (CRWQCB), as stated in their October 22, 1990, workplan directive (File No. AB105.263).

This report documents the results of the fourth quarter of groundwater monitoring at the Stoody Company facility located at 16425 Gale Avenue, City of Industry, California (Figure 1, Appendix A). The first quarter report was previously submitted to the CRWQCB on March 8, 1991. The second quarter report was previously submitted to the CRWQCB on July 3, 1991. The third quarter report was previously submitted to the CRWQCB on September 16, 1991.

Activities conducted during this fourth quarter of monitoring included measurements of water levels in the five onsite monitoring wells (MW-1, MW-2, MW-3, MW-4, and MW-5), and sampling and analysis of groundwater from those five wells. Historic data from the first, second, and third quarterly sampling events are included as Appendix B.

The quarterly groundwater monitoring was performed in accordance with the Terms and Conditions described in Clayton's Proposal No. 90-SEE-164 dated December 18, 1990. Clayton received written authorization to proceed with the groundwater monitoring from Ms. Nicole Jafari on December 26, 1990.

2.0 FINDINGS

Water level measurements and groundwater samples were collected from five onsite monitoring wells at the Stoody facility as part of the fourth quarter of a quarterly groundwater monitoring program.

Ten compounds were detected above the analytical limits of detection using EPA Method 524.2 for volatile organic compounds (VOCs). A summary table of results is provided in Appendix A. The compounds detected in the wells included: carbon tetrachloride (one well), chloroform (one well), 1,2-dichloroethane (one well), 1,1-dichloroethene (five wells), cis 1,2-dichloroethene (four wells), tetrachloroethene (five wells), 1,1,1-trichloroethane (two wells), trichloroethene (five wells), trichlorofluoromethane (five wells), and benzene (one well).

The laboratory analytical reports of the fourth quarter's samples showed that the compounds detected in the downgradient monitoring well were present at similar concentrations as in the upgradient wells, although some variations in concentrations were noted from well to well. For example, trichloroethene was reported at 52 μg/L in Well MW-4 (upgradient) and at 96 μg/L in Well MW-3 (downgradient); tetrachloroethene was

reported at 170 μg/L in Wells MW-4, MW-2, and MW-1 and at 76 μg/L in Well MW-3. Other reversing trends like this also occurred in the reported laboratory data.

Those conditions, coupled with the results of the first, second, and third quarter analyses, suggest an offsite source may be responsible for the compounds detected in the groundwater samples. In samples of the upgradient monitoring well, MW-4, no methylene chloride was reported in the laboratory analytical results this quarter, however in the previous quarter it was reported to be at a concentration of 5.7 μg/L and in the quarter before that it was not detected by the laboratory.

In the fourth quarter sample analysis of groundwater from MW-3 benzene was reported by the laboratory at a concentration of 0.51 μg/L. Benzene had not been detected in any of the previously collected samples for the year.

With the exception of the compounds discussed above, and the compound trans 1,2-dicloroethane, all of the compounds were identified in the same wells at generally the same concentration as last quarter. Trans 1,2-dichloroethane was not detected in any sample this quarter.

3.0 FIELD ACTIVITIES

Water-level measurement and groundwater sample collection from Monitoring Wells MW-1 through MW-5, occurred on November 1, 1991. Procedures followed during these activities are outlined below.

3.1 WATER-LEVEL MEASUREMENTS

Water-level measurements were taken on November 1, 1991, for Wells MW-1 through MW-5 using a Teflon™ measuring tape. These groundwater measurements have been used to calculate a groundwater flow direction of west-northwest with a vertical slope of 0.009 feet/foot (Appendix A, Figure 3).

3.2 GROUNDWATER SAMPLING

Groundwater Monitoring Wells MW-1 through MW-5 were sampled on November 1, 1991. Prior to sampling, the wells were purged using a PVC bailer attached to a truck-mounted mast/pulley system (a well development rig). The bailer and attached cable were steam-cleaned between wells. The wells were sampled in the following order: MW-4, MW-2, MW-5, MW-1, and MW-3.

A minimum of three casing volumes of water were removed from each well. Water quality parameters (pH, temperature, and electrical conductivity) were measured at the beginning of the well purging and after the removal of 18, 36, and 54 gallons of water from each well. Purging was discontinued after 54 gallons of water (4 to 5 well casing

volumes) were removed and the water quality parameters stabilized to within plus or minus 10 percent of the parameter values obtained from the previous measurements. Water quality parameters are provided on the water sampling field survey forms (Appendix C).

The wells were allowed to recharge for at least 1 hour before any further work took place. Then, using precleaned, hand-held Lexan™ bailers attached to nylon line, four additional parameter samples were collected to ensure that the wells had stabilized (Appendix C). The bailer was then used to collect the groundwater samples. The groundwater was decanted into the appropriate collection containers using a Teflon™ tap. The bailer and tap were washed with potable water and Alconox™ detergent between sampling events and rinsed twice with deionized water. Clayton personnel wore precleaned Neoprene™ gloves during sample collection and handling.

The samples were collected using the container and preservation guidelines of the U.S. Environmental Protection Agency (EPA), 40 CFR 136. After being filled with groundwater, the sample containers were labeled, wrapped in shock-absorbing foam sheeting, and placed on ice in a portable cooler.

Within 24 hours of collection, the samples were transported, under standard chain-of-custody procedures, to a Department of Health Services (DHS) certified laboratory for analysis. Purged groundwater was placed in five Class 17-H, 55-gallon drums. The drums were labeled and placed onsite for disposal by the Stoody Company.

4.0 LABORATORY ANALYTICAL RESULTS

Laboratory analyses were provided by the laboratory of Enseco CRL located in Garden Grove, California. The laboratory is certified by the California Department of Health Services (DHS). The laboratory test results are summarized in Tables 2, 3, 4, and 5 (Appendix A), and the laboratory reports are presented in Appendix D.

Groundwater samples were analyzed using EPA Method 524.2 for volatile organic compounds and EPA Method 180.1 for turbidity. The groundwater samples collected from wells MW-5, and MW-3 were also subjected to EPA Method 418.1 for total recoverable petroleum hydrocarbons (TRPH).

4.1 VOC AND TRPH ANALYSES

As reported in the summary table of results for EPA Method 524.2 (Table 2), five of the compounds detected in the wells had concentrations exceeding the EPA maximum contaminant level (MCL) or DHS drinking water action level (DWAL) for the corresponding compounds.

Carbon tetrachloride was detected at a concentration of 1.3 microgram per liter (μg/L) in a sample from well MW-3. The MCL for this compound is 0.5 μg/L. 1,2-Dichloroethane was detected only in well MW-3 at a concentration of 1.2 μg/L. The MCL for this compound is 0.5 μg/L. 1,1-Dichloroethene was detected at concentrations ranging from 17 to 54 μg/L. The MCL for this compound is 6.0 μg/L. Tetrachloroethene was detected at concentrations ranging from 76 to 170 μg/L. The DHS DWAL for this compound is 5 μg/L. Trichloroethene was detected at concentrations ranging from 44 to 96 μg/L. The DHS DWAL for this compound is 5 μg/L.

Five compounds were detected in the wells in concentrations below the MCL or DWAL. Chloroform was detected in MW-3 at 1.2 μg/L, which is below the MCL of 100 μg/L for this compound. Cis 1,2-dichloroethene was detected at concentrations ranging between 2.6 μg/L and 4.4 μg/L. These concentrations are below the DHS DWAL of 6.0 μg/L for this compound. Benzene was detected at a concentration of 0.51 μg/L in the sample from MW-3. The MCL for benzene is 1 μg/L.

1,1,1- Trichloroethene was detected at concentrations ranging from 3.1 to 8.7 μg/L. These concentrations are below the MCL of 200 μg/L for this compound. Trichloro-fluoromethane was detected at concentrations ranging from 2.5 μg/L to 3.4 μg/L. These concentrations are below the DHS DWAL of 150 μg/L for this compound.

Methylene chloride and trans 1,2-dichloroethene were not detected in the samples this quarter.

As shown in the summary table of results for EPA Method 418.1 for TRPH in wells MW-5 and MW-3 (Table 4), analytical results report that TRPH was not detected in any of the groundwater samples taken.

Clayton submitted a sample of the final rinse water for laboratory testing as part of its laboratory analyses program to identify potential cross contamination. Laboratory analyses of the "Decon Water" identified three VOCs; bromochloroethane, dibromochloroethane, and chloroform. All of these compounds are used in the treating of water for public use. Because all other VOCs were not detected in the "decon water", the two bromine VOCs were not detected in the groundwater samples, and the chloroform was found only in the well in which it was found last quarter, it is likely that Clayton did not cross-contaminate any wells and that the bromomethanes and chloroform detected are of no consequence to this project.

4.2 TURBIDITY ANALYSIS

The laboratory reported relatively high turbidity readings of 76 and 96 Nephelometric Turbidity Units (NTUs) in wells MW-1 and MW-2, respectively. Although these numbers are high, Clayton has made two observations that we believe support our opinion that these high readings have not affected the validity of the VOC analyses and that the reported concentrations represent actual field conditions.

The wells were purged from throughout their casing lengths prior to sampling, disturbing sediment in the bottom of the wells and creating unrepresentative field conditions for each well. The suspended particles were seen, in the field, to fall out of suspension very quickly. Discussion with the laboratory revealed that prior to turbidity testing they agitated the sample, thereby reintroducing particulate matter into the water that is not part of the actual suspension that occurs in the field.

The sample used for the turbidity test was collected in an individual 100-milliliter (mL) container and was separate from the samples used for VOC analyses. The samples used for the VOC analyses were collected in 40-ml teflon-capped vials, had very little sediment in them, and were not agitated prior to analysis.

5.0 CONCLUSIONS

Clayton has performed quarterly groundwater monitoring at the Stoody Company facility for 2 years. During that time laboratory results from groundwater analyses have provided no direct evidence that the Stoody Company has contributed to the contaminated condition of the groundwater beneath their facility.

The reported data from the laboratory analyses has provided little in the way of trends or consistency. However, the data does show one important set of results. The samples from MW-4, the most upgradient well and located roughly on the eastern property boundary, consistently contain VOC contaminants in them but in various concentrations from quarter to quarter. Due to the location of MW-4 it is improbable that the reported contaminants are from the Stoody facility operations.

Based on the laboratory analysis of groundwater samples from MW-4, it is Clayton's opinion that the groundwater flowing beneath the Stoody facility is already in a contaminated state before it flows beneath the facility.

Based on the lack of trends from the laboratory data, it is Clayton's opinion that the Stoody Company has not been, and is not a significant contributor to the contaminated groundwater flowing beneath the facility.

6.0 RECOMMENDATIONS

Clayton recommends that the groundwater monitoring at the Stoody facility continue for another year. If, however, no significant trends develop in the laboratory data, Clayton recommends that groundwater monitoring at the Stoody facility be terminated at the end of 1992, and that the groundwater monitoring wells be abandoned.

Clayton recommends addressing the presence or absence of an upgradient source of contamination, by reviewing, compiling and analyzing data from existing upgradient monitoring wells available in the files of the CRWQCB and the Los Angeles County Department of Public Works. If data is found to further support that the Stoody Company is merely in the downgradient position of a known, or suspected, groundwater contamination contributor, Clayton recommends that the laboratory schedule for groundwater analysis in 1992 be modified and limited to only those hydrocarbons associated with the clarifier at the site, and that the wells monitored be limited to only those downgradient of that clarifier.

7.0 SCHEDULE FOR NEXT GROUNDWATER MONITORING EVENT

The next groundwater monitoring will occur in December, 1991. This monitoring event will be just to measure the depth to groundwater in each well, and will occur monthly throughout 1992. The next sampling and sample analysis of the groundwater will occur in February of 1992. A report of that sampling and the laboratory test results will be sent to the CRWQCB by March 1, 1991.

8.0 LIMITATIONS

The information and opinions rendered in this report are exclusively for use by the Stoody Company. Clayton Environmental Consultants, Inc. will not distribute this report without your consent except as may be required by law or court order. The information and opinions expressed in this report are given in response to our limited assignment and should be evaluated and implemented only in light of that assignment. We accept responsibility for the competent performance of our duties in executing the assignment and preparing this report in accordance with the normal standards of our profession but disclaim any responsibility for consequential damages.

This report submitted by:

Andre LaMontagne
Geologist

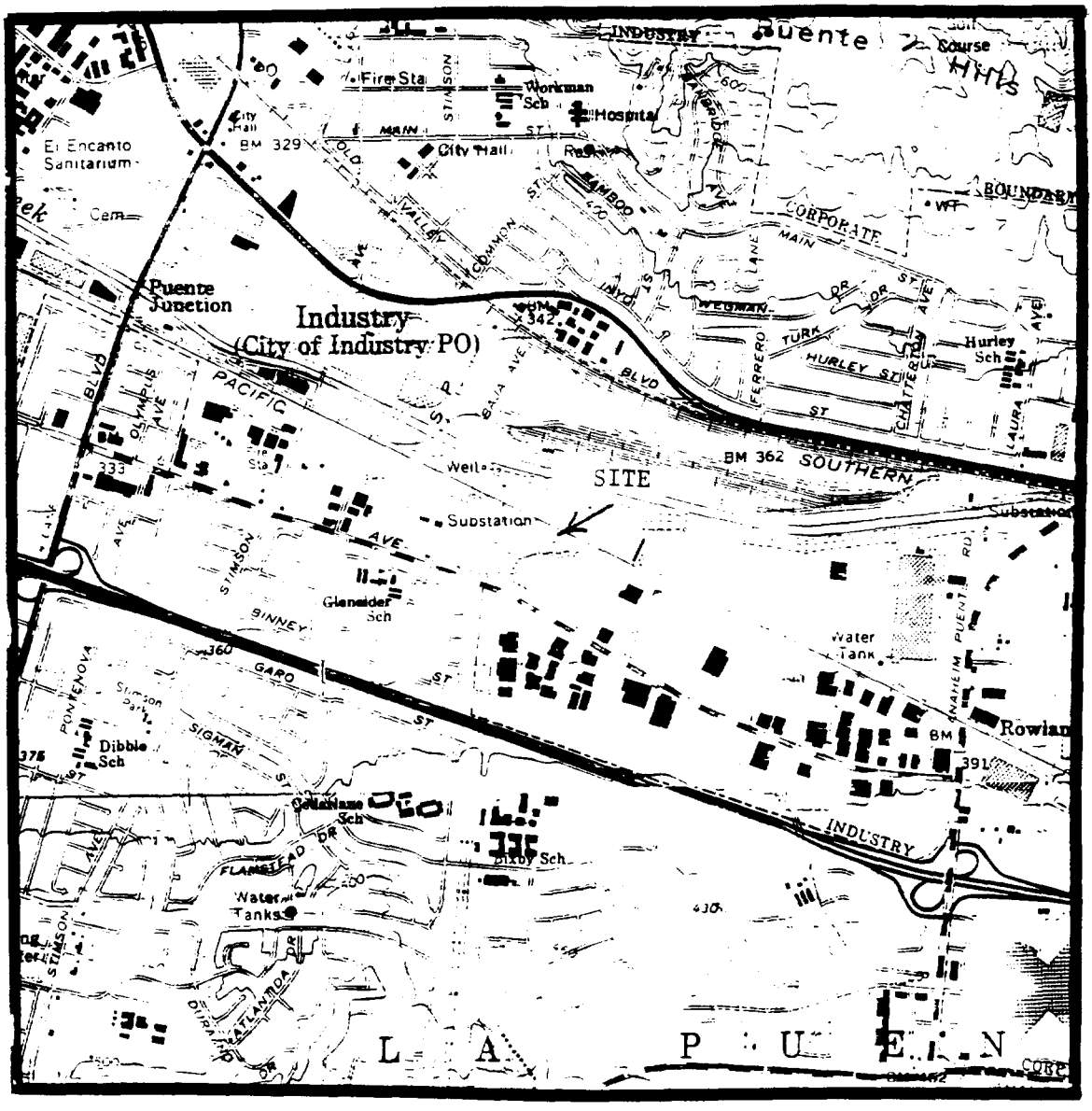
This report reviewed by:

David H. Randell
Registered Geologist, No. 3977
Manager, Environmental Engineering
Pacific Operations

December 18, 1991

APPENDIX A

FIGURES AND TABLES



BASEMAP TAKEN FROM 1966 USGS BALDWIN PARK, CALIFORNIA QUADRANGLE, 7.5 MINUTE SERIES (TOPOGRAPHIC), PHOTOREVISED 1981.

QUADRANGLE LOCATION

SCALE 1:24000

1 MILE

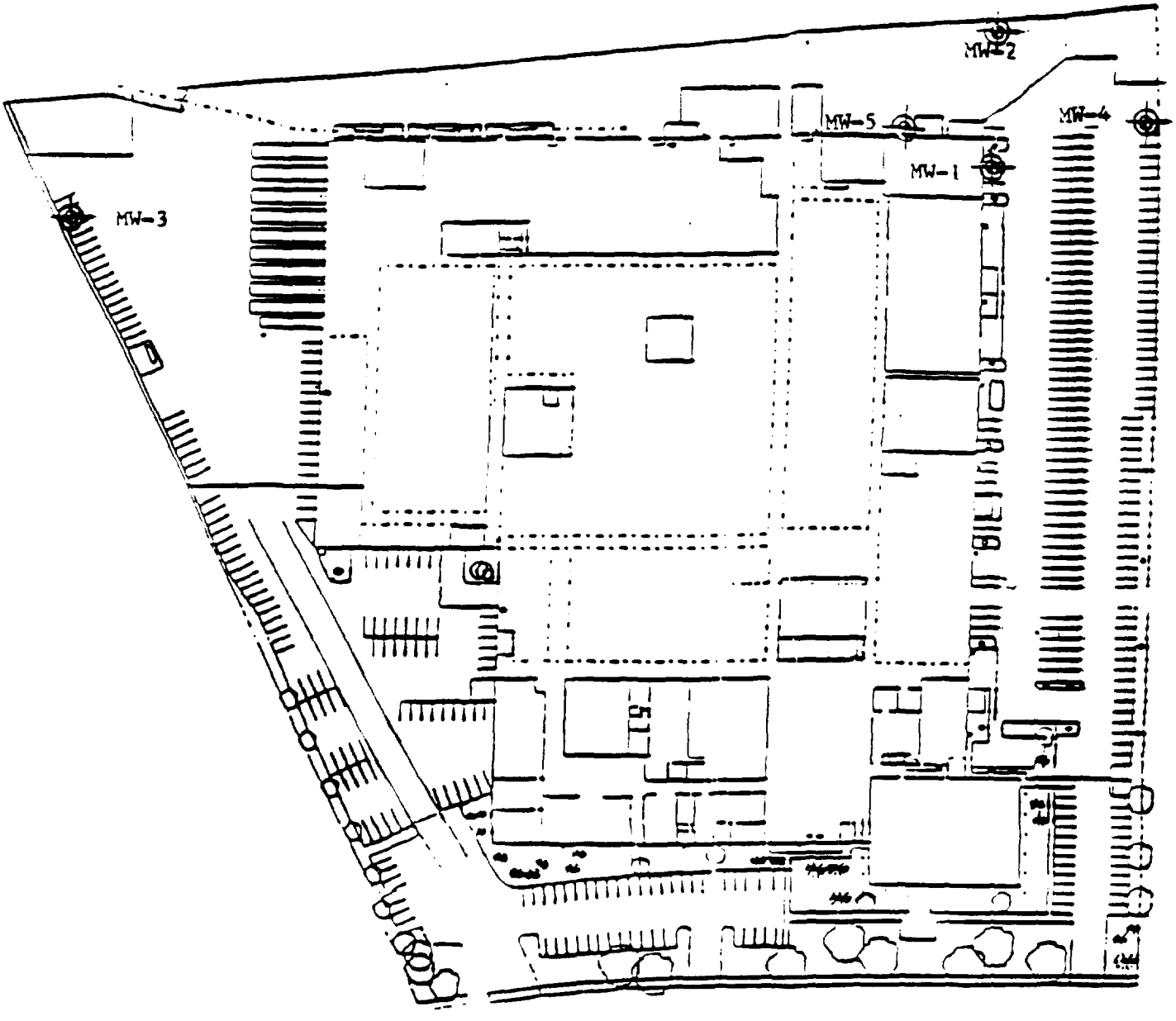
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

NORTH

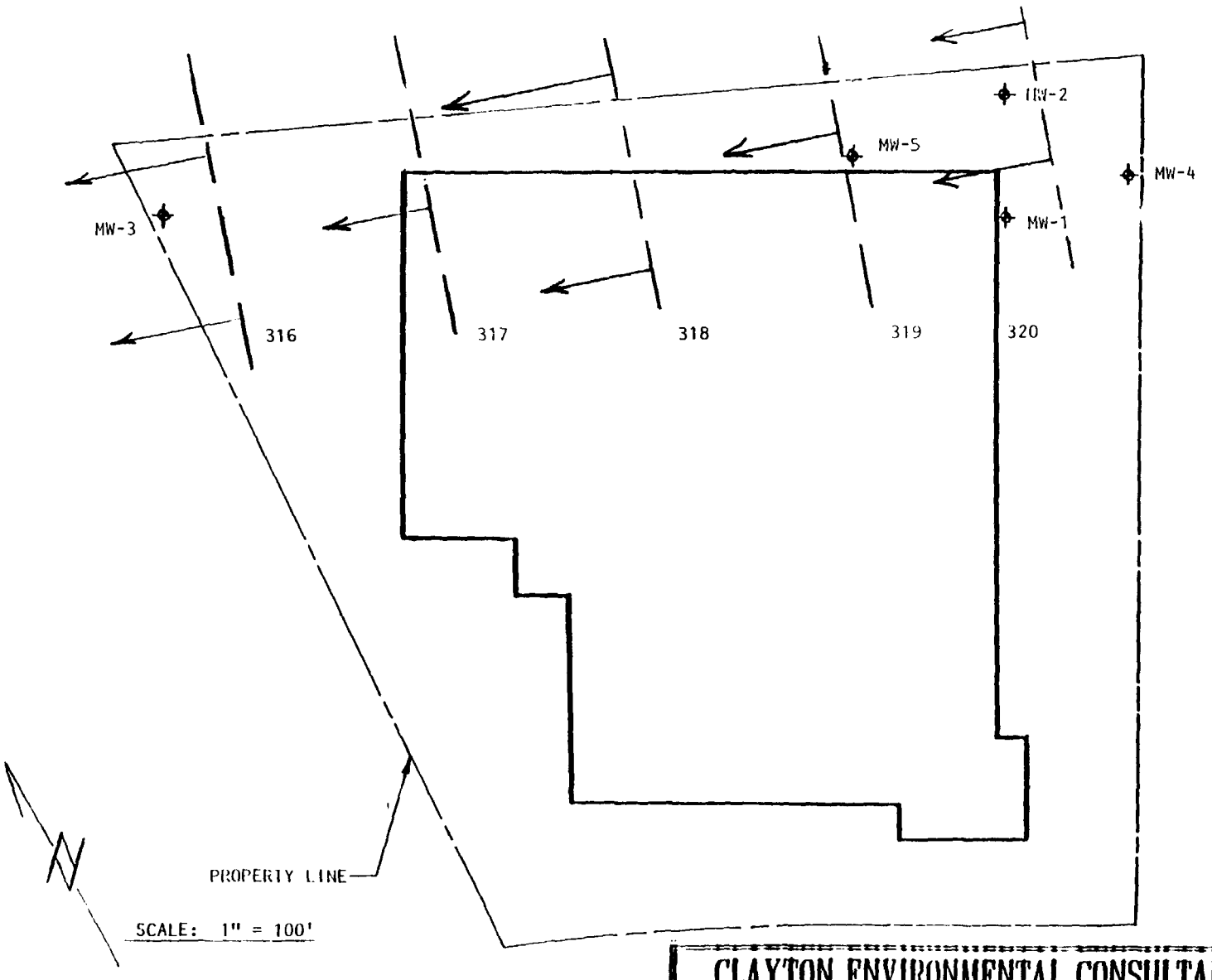
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGURE
GENERAL SITE LOCATION	
STOODY COMPANY 16425 E. GALE AVENUE INDUSTRY, CALIFORNIA	1
CLAYTON PROJECT NO. 33043.00	11/91



SCALE: 1 INCH = 150 FEET

NORTH

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGURE
GENERAL SITE PLAN STOODY COMPANY 16425 E. GALE AVENUE INDUSTRY, CALIFORNIA CLAYTON PROJECT NO. 33043.00	2 11/91



CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGURE
GROUNDWATER GRADIENT	3
THE STOODY COMPANY 16425 GALE AVENUE CITY OF INDUSTRY, CA	CLAYTON PROJECT NO. 33043.00
	11/91

Table 1
Groundwater Monitoring Well Data
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: November 1, 1991

Elevations (feet)					
Monitoring Well	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
California Coordinates Northerly	4 115 352.91	4 115 446.16	4 115 618.47	4 115 317.93	4 115 437.54
California Coordinates Easterly	4 304 877.74	4 305 930.76	4 304 433.56	4 305 006.96	4 304 813.76
Elevation at top of well casing (MSL)	352.18	351.12	349.34	353.55	351.64
Total depth of well after development	44.96	45.08	44.96	48.83	50.42
Date of measurement	11/1/91	11/1/91	11/1/91	11/1/91	11/1/91
Depth to water from top of casing	32.46	31.29	33.62	33.04	32.17
Elevation of water (MSL)	319.72	319.83	315.72	320.51	319.47

Table 2
Summary Table of Results for EPA Method 524.2 (Concentrations in µg/L)
for Volatile Organic Compounds
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: November 1, 1991

Monitoring Well No.	Carbon tetra-chloride	Chloro-form	1,2-Dichloro-ethane	1,1-Dichloro-ethene	Cis 1,2-Dichloro-ethene	Trans 1,2-Dichloro ethene	Methylene Chloride	Tetra-chloro-ethene	1,1,1-Trichloro-ethane	Trichloro-ethene	Trichloro-fluoro-methane	Benzene
MW-1	ND	ND	ND	23 +	4.4	ND	ND	170 +	ND	58 +	2.8	ND
MW-2	ND	ND	ND	17 +	2.6	ND	ND	170 +	3.1	44 +	ND	ND
MW-3	1.3 +	1.2	1.2 +	54 +	ND	ND	ND	76 +	8.7	96 +	ND	0.51
MW-4	ND	ND	ND	21 +	4.3	ND	ND	170 +	ND	52 +	3.4	ND
MW-5	ND	ND	ND	20 +	2.7	ND	ND	160 +	ND	50 +	2.5	ND
DECON	ND	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DHS DWAL or MCL for Corresp. Compounds	*0.5	*100	*0.5	*6.0	6.0	NA	40	5.0	*200	*5.0	150	1.0
LOD for Corresp. Compounds	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Method Blank	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND: Not detected at or above limit of detection
µg/L: Micrograms per liter (generally equivalent to parts per billion)
NA: Information not available
DHS: State of California Department of Health Services
DWAL: Drinking water action level
*MCL: Maximum contaminant level
LOD: Limit of detection
+: Reported concentration is above DWAL and/or MCL

Table 3
Summary Table of Results for EPA Method 180.1
for Turbidity
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: November 1, 1991

Sample Identification	Turbidity (N.T.U.)*
MW-1	76
MW-2	96
MW-3	44
MW-4	40
MW-5	2.1

Limit of detection: 0.1 N.T.U.
*N.T.U.: Nephelometric Turbidity Units

Table 4
Summary Table of Results for EPA Method 418.1 for
Total Petroleum Hydrocarbons (Concentrations in mg/L)
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: November 1, 1991

Sample Identification Number	Total Recoverable Petroleum Hydrocarbons
MW-3	ND
MW-5	ND

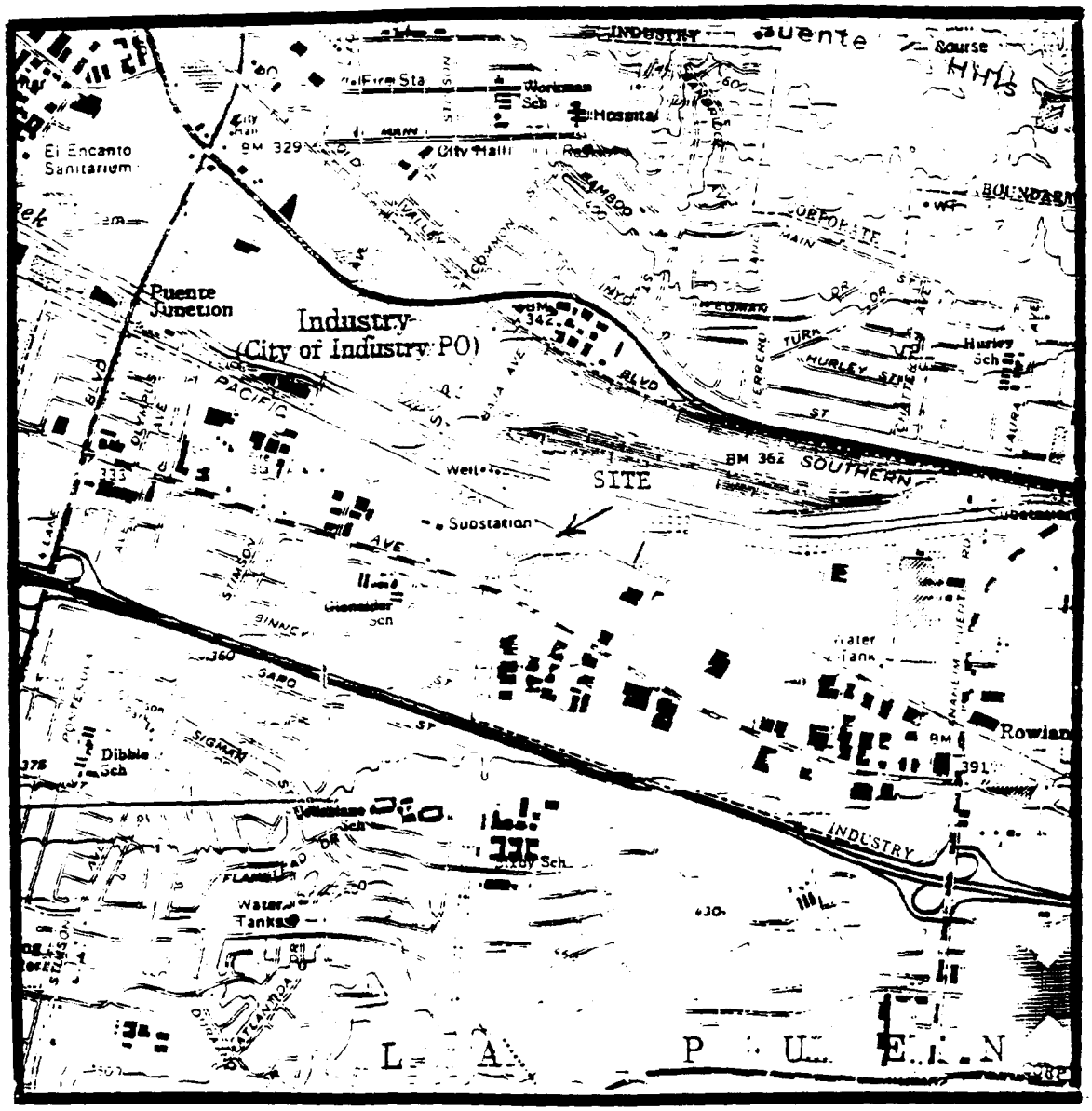
Limit of detection: 1.0
mg/L: Milligrams per liter (generally equivalent to parts per million)

Table 5
Summary Table of Results for Average Pre-Sample pH Values
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: November 1, 1991

MONITORING WELL NUMBER	pH
MW-1	7.04
MW-2	7.02
MW-3	6.97
MW-4	7.04
MW-5	7.00

APPENDIX B

HISTORIC FIGURES AND TABLES



BASEMAP TAKEN FROM 1966 USGS BALDWIN PARK, CALIFORNIA QUADRANGLE, 7.5 MINUTE SERIES (TOPOGRAPHIC). PHOTOREVISED 1981.

QUADRANGLE LOCATION

SCALE 1:24 000

1 MILE

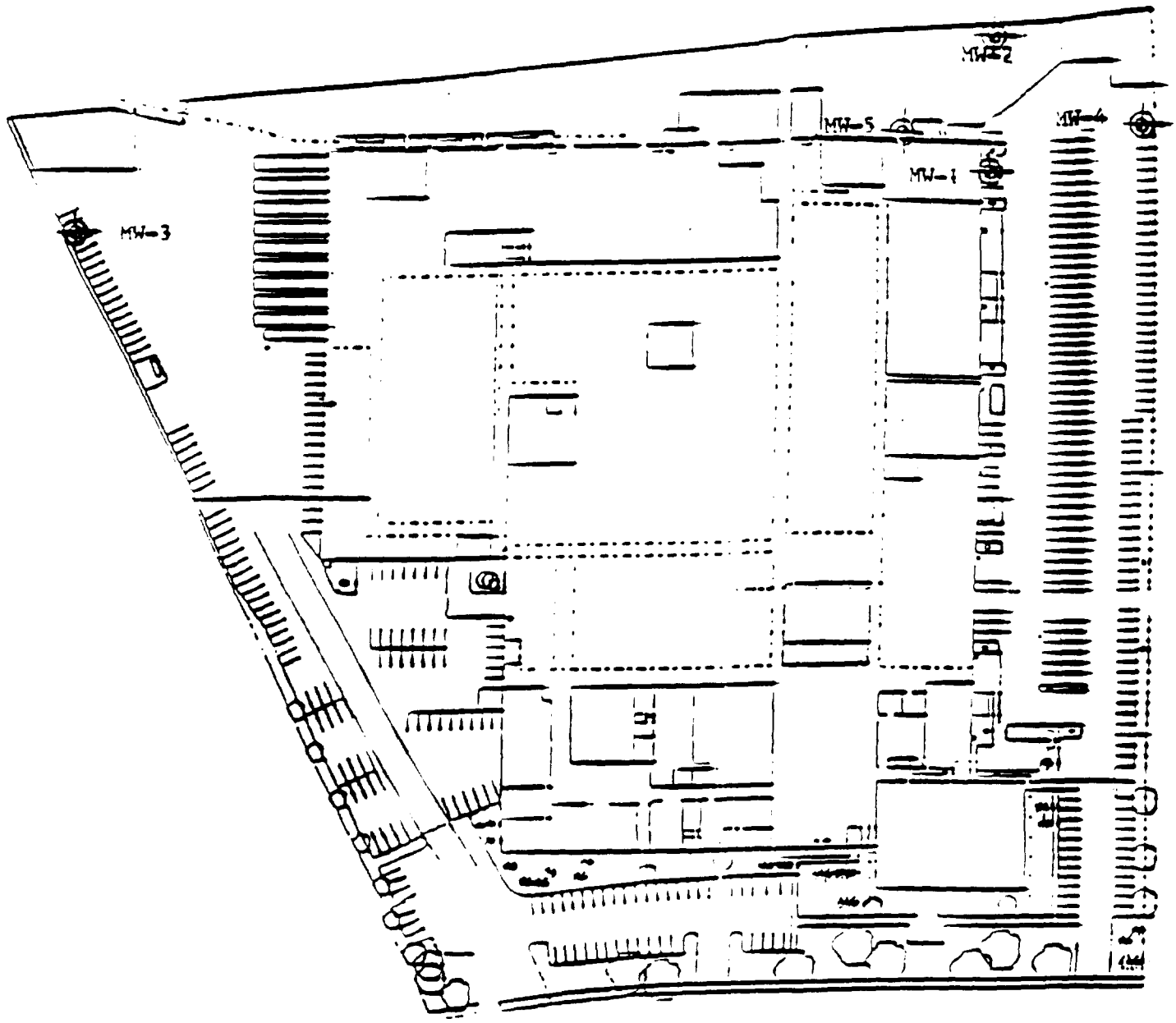
0 1000 2000 3000 4000 5000 6000 7000 FEET

0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

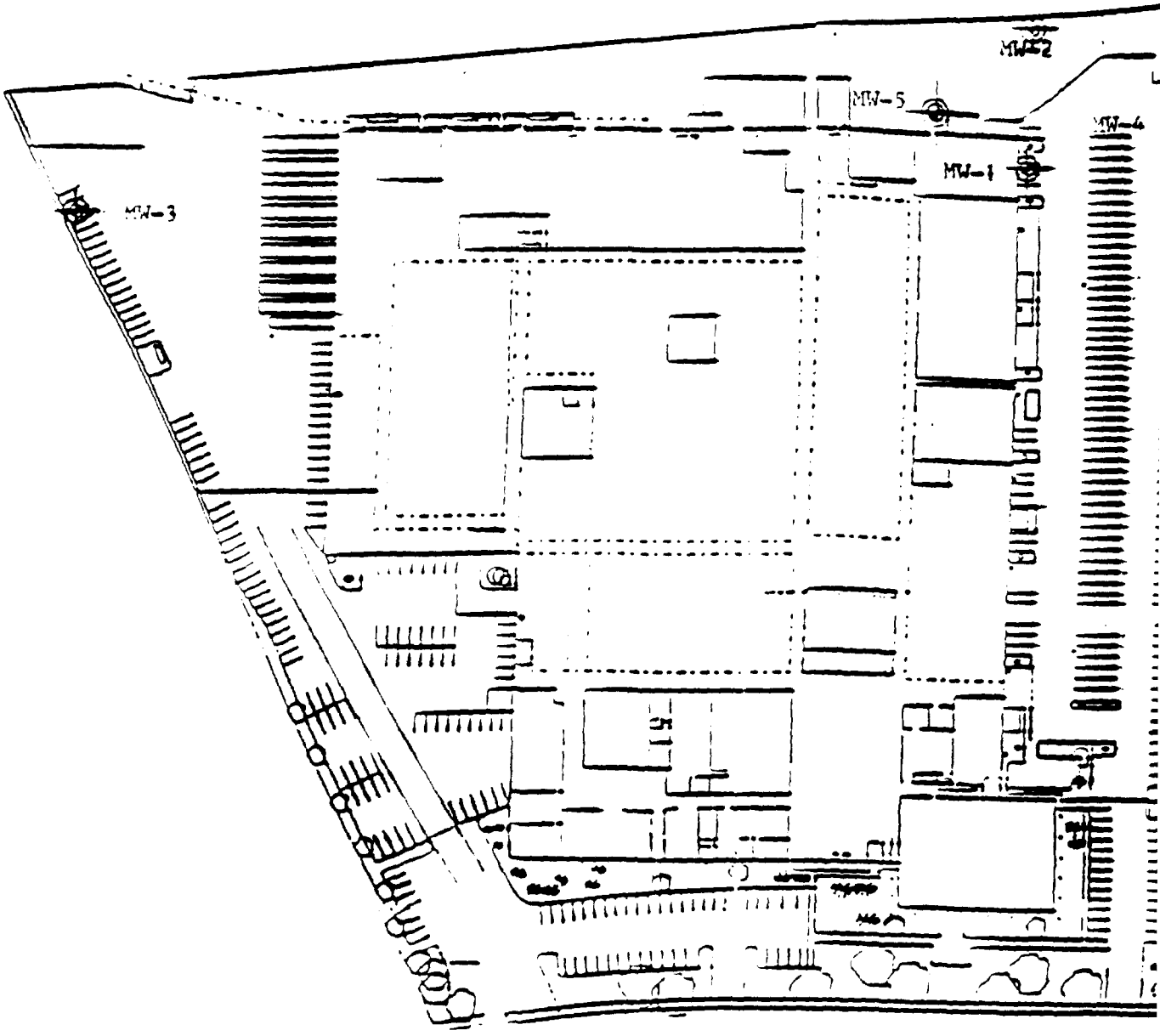
NORTH

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGURE
GENERAL SITE LOCATION	
STOODY COMPANY 16425 E. GALE AVENUE INDUSTRY, CALIFORNIA	CLAYTON PROJECT NO. 36548.00
	1 9 /91



SCALE: 1 INCH = 160 FEET

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGURE
GENERAL SITE PLAN	
STOODY COMPANY 16425 E. GALE AVENUE INDUSTRY, CALIFORNIA	CLAYTON PROJECT NO. 36584.00
	2 9 /91

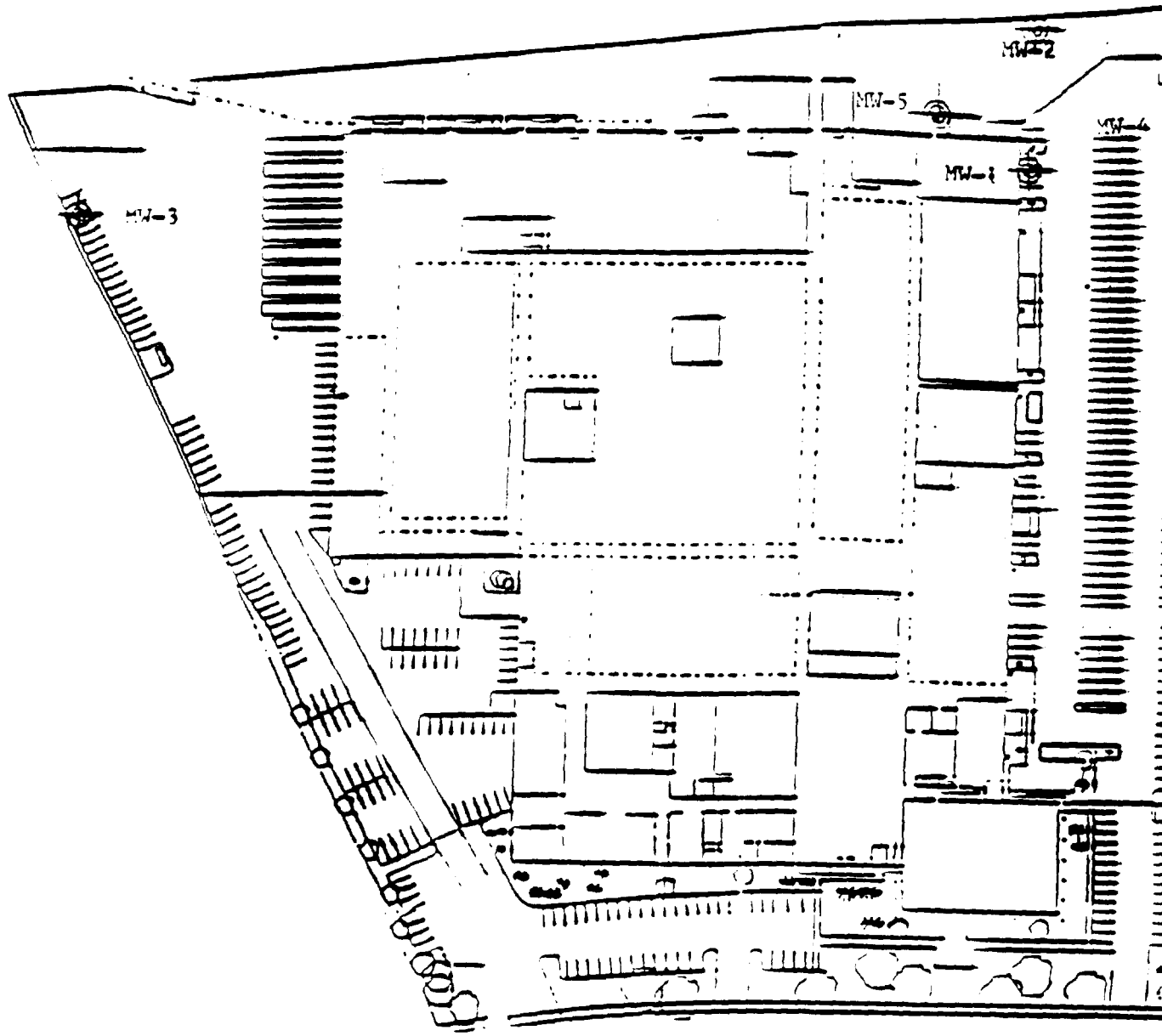


MONITORING WELL LOCATION

SCALE: 1 INCH = 150 FEET

NORTH

CLAYTON ENVIRONMENTAL CONSULTANTS. INC.	FIGUR
APPROXIMATE LOCATIONS OF MONITORING WELLS	1
STOODY COMPANY INDUSTRY, CALIFORNIA — PROJECT NO. 33043.00	3/91

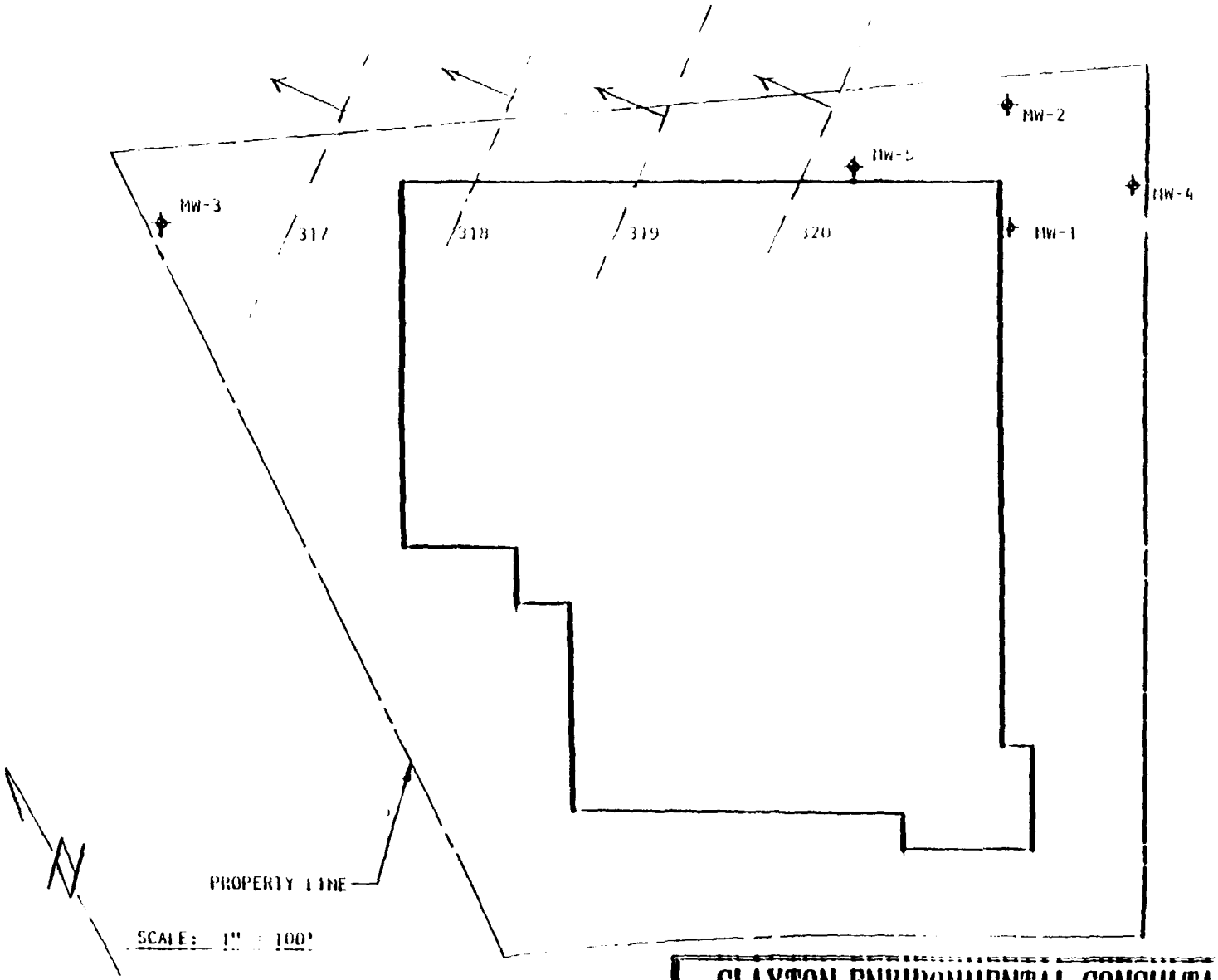


MONITORING WELL LOCATION

SCALE: 1 INCH = 150 FEET

NORTH

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGUR
APPROXIMATE LOCATIONS OF MONITORING WELLS	1
STOODY COMPANY INDUSTRY, CALIFORNIA — PROJECT NO. 33043.00	3/91



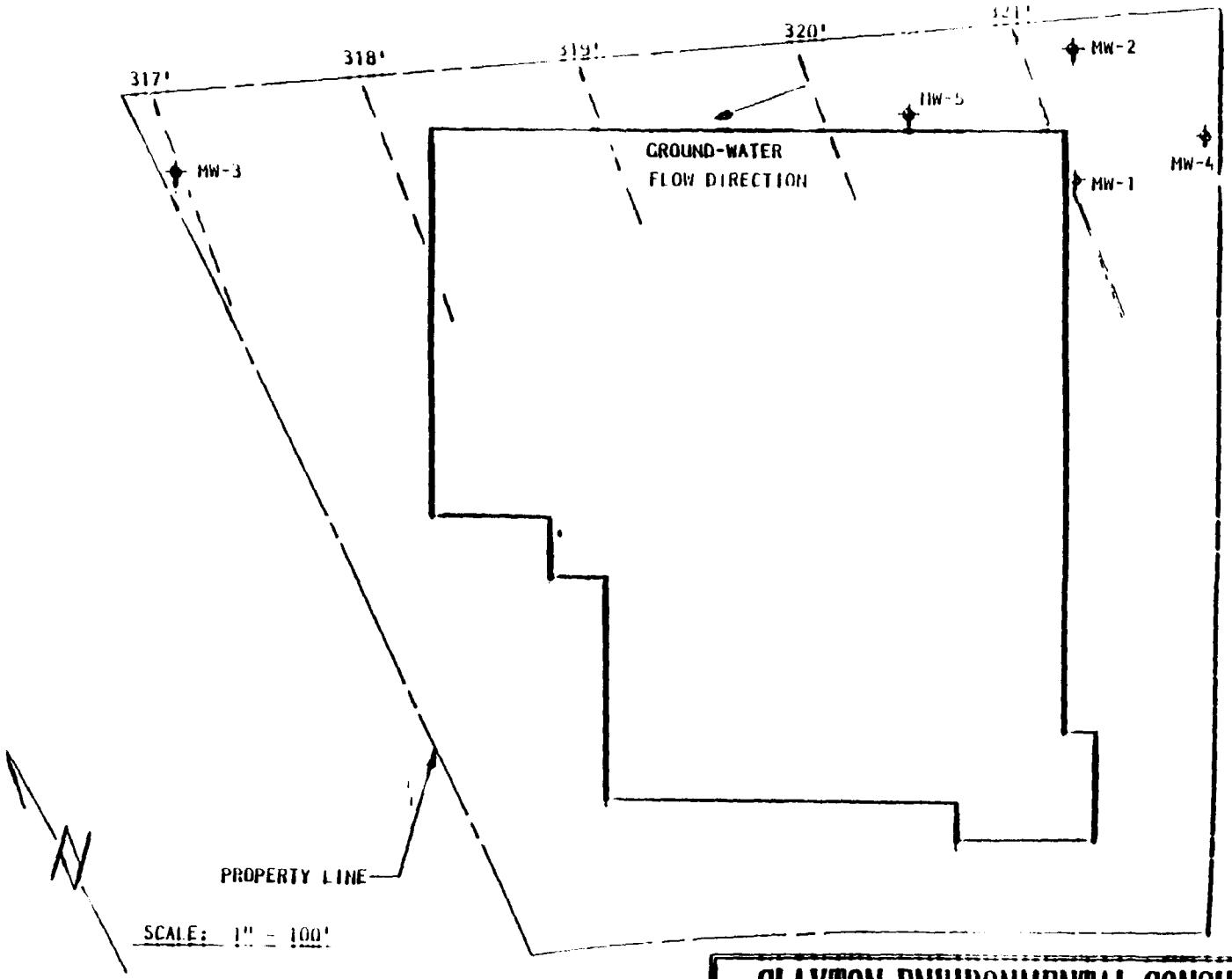
CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

GROUNDWATER GRADIENT

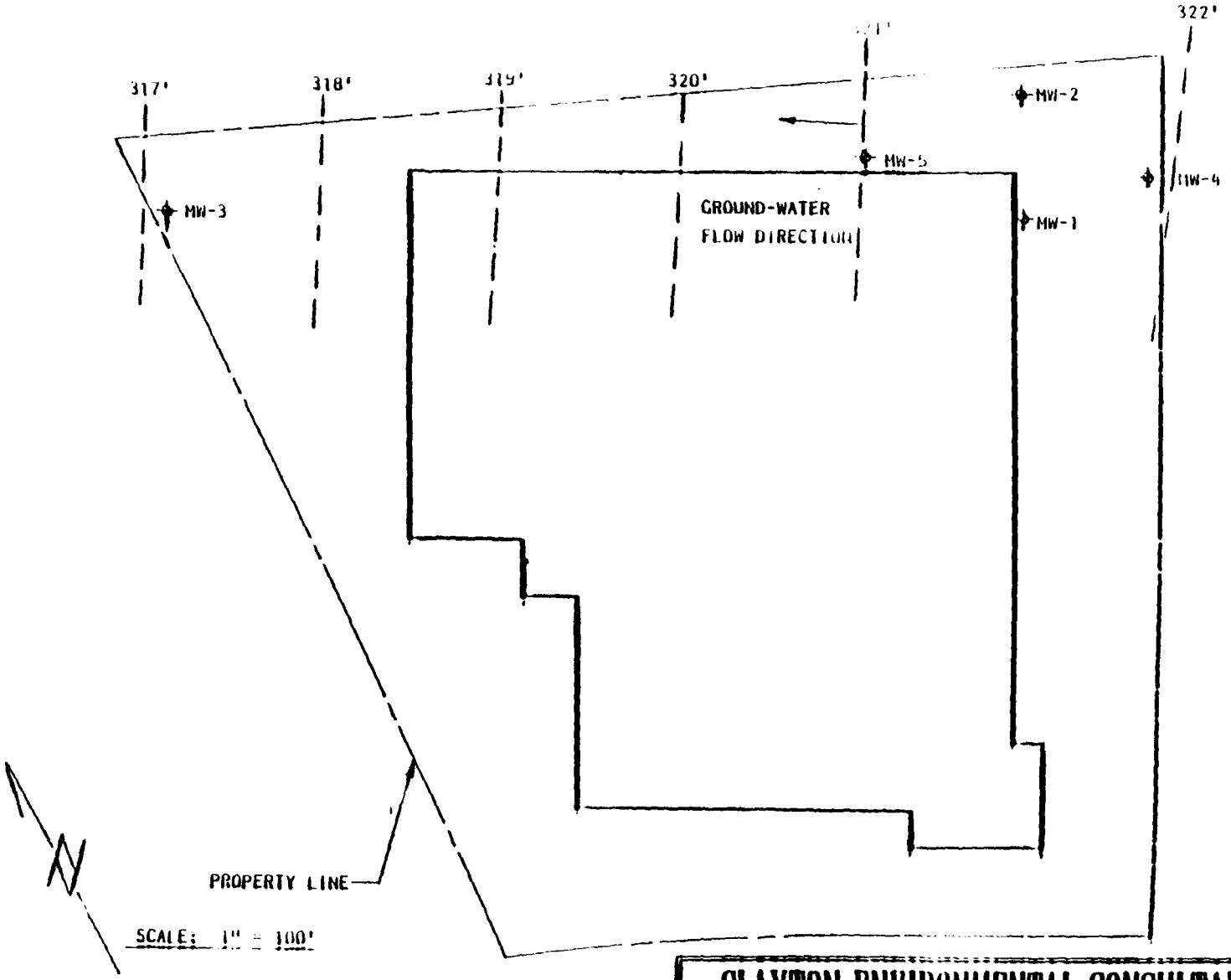
THE STOODY COMPANY
16425 GALE AVENUE
CITY OF INDUSTRY, CA

CLAYTON PROJECT NO.
33043.00

FIGURE
3
9/91



CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	FIGURE
GROUNDWATER GRADIENT AND FLOW DIRECTION	2
THE STOODY COMPANY 16425 GALE AVENUE CITY OF INDUSTRY, CA	CLAYTON PROJECT NO. 33043.00
	7/91



CLAYTON ENVIRONMENTAL CONSULTANTS, INC.	**FIGURE**
GROUNDWATER GRADIENT AND FLOW DIRECTION	2
THE STOODY COMPANY 16425 GALE AVENUE CITY OF INDUSTRY, CA	CLAYTON PROJECT NO. 33043.00
	3/91

Clayton
ENVIRONMENTAL
CONSULTANTS

Table 1
Groundwater Monitoring Well Data
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: May 14, 1991

Elevations (feet)					
Monitoring Well	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
California Coordinates Northerly	4 115 352.91	4 115 ~~4~~16.16	4 115 618.47	4 115 317.93	4 115 437.54
California Coordinates Easterly	4 304 877.74	4 305 930.76	4 304 433.56	4 305 006.96	4 304 813.76
Elevation at top of well casing (MSL)	352.18	351.12	349.34	353.55	351.64
Total depth of well after development	45.10	45.17	45.08	48.69	50.50
Date of measurement	8/14/91	8/14/91	8/14/91	8/14/91	8/14/91
Depth to water from top of casing	32.02	30.71	33.15	32.42	31.50
Elevation of water (MSL)	320.16	320.41	316.19	321.13	320.14

Table 1
Groundwater Monitoring Well Data
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: May 14, 1991

Elevations (feet)					
Monitoring Well	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
California Coordinates Northerly	4 115 352.91	4 115 446.16	4 115 618.47	4 115 317.93	4 115 437.54
California Coordinates Easterly	4 304 877.74	4 305 930.76	4 304 433.56	4 305 006.96	4 304 813.76
Elevation at top of well casing (MSL)	352.18	351.12	349.34	353.55	351.64
Total depth of well after development	45.10	45.17	45.08	48.69	50.50
Date of measurement	8/14/91	8/14/91	8/14/91	8/14/91	8/14/91
Depth to water from top of casing	32.02	30.71	33.15	32.42	31.50
Elevation of water (MSL)	320.16	320.41	316.19	321.13	320.14

Clayton
ENVIRONMENTAL
CONSULTANTS

Table 1
Groundwater Monitoring Well Data
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: December 27, 1990 and February 13, 1991

Elevations (feet)					
Monitoring Well	MW-1	MW-2	MW-3	MW-4	MW-5
California Coordinates Northerly	4 115 352.91	4 115 446.16	4 115 618.47	4 115 317.93	4 115 437.54
California Coordinates Easterly	4 304 877.74	4 305 930.76	4 304 433.56	4 305 006.96	4 304 813.76
Elevation at top of well casing (MSL)	352.18	351.12	349.34	353.55	351.64
Total depth of well after development	44.90	44.95	44.85	48.68	49.86
Date of measurement	3/6/91	3/6/91	3/6/91	3/6/91	3/6/91
Depth to water from top of casing	31.12	30.04	32.17	31.65	30.62
Elevation of water (MSL)	321.06	321.08	317.17	321.90	321.02

Table 2
Summary Table of Results for EPA Method 524.2 (Concentrations in µg/L)
for Volatile Organic Compounds
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: August 14, 1991

Monitoring Well No.	Carbon tetra-chloride	Chloro-form	1,2-Dichloro-ethane	1,1-Dichloro-ethene	Cis 1,2-Dichloro-ethene	Trans 1,2-Dichloro ethene	Methylene Chloride	Tetra-chloro-ethene	1,1,1-Trichloro-ethane	Trichloro ethene	Trichloro fluoro methane
MW-1	ND	ND	ND	+25	3.9	2.7	6.2	+200	ND	+52	2.5
MW-2	ND	ND	ND	+20	2.7	ND	6.7	+210	4.7	+41	ND
MW-3	+1.1	+1.3	+0.94	+56	ND	ND	ND	+77	7.5	+92	0.51
MW-4	ND	ND	ND	+23	4.4	ND	5.7	+180	ND	+54	3.6
MW-5	ND	ND	ND	+23	3.0	ND	7.1	+180	ND	+50	2.6
DECON	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DHS DWAL or MCL for Corresp. Compounds	*0.5	*100	*0.5	*6.0	6.0	NA	40	5.0	*200	*5.0	150
LOD for Corresp. Compounds	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Method Blank	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND: Not detected at or above limit of detection
µg/L: Micrograms per liter (generally equivalent to parts per billion)
NA: Information not available
DHS: State of California Department of Health Services
DWAL: Drinking water action level
*MCL: Maximum contaminant level
LOD: Limit of detection
+: Reported concentration is above DWAL and/or MCL.

Table 2
Summary Table of Results for EPA Method 524.2 (Concentrations in µg/L) for Volatile Organic Compounds
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: May 14,1991

Monitoring Well No.	Carbon tetra-chloride	Chloro-form	1,2-Dichloro-ethane	1,1-Dichloro-ethene	Cis 1,2-Dichloro-ethene	Trans 1,2-Dichloro-ethene	Methylene Chloride	Tetra-chloro-ethene	1,1,1-Trichloro-ethane	Trichloro-ethene	Trichloro-fluoro Methane
MW-1	ND	ND	ND	14	2.7	ND	1.1	100	ND	ND	ND
MW-2	ND	ND	ND	13	ND	ND	1.0	140	ND	ND	ND
MW-3	1.0	1.0	0.8	49	ND	ND	ND	66	7.6	77	ND
MW-4	ND	0.52	ND	12	2.7	ND	ND	92	1.1	30	1.3
MW-5	ND	ND	ND	16	2.7	ND	ND	130	ND	ND	ND
DHS DWAL or MCL for Corresp. Compounds	*0.5	*100	*0.5	*6.0	6.0	6.0	40	5.0	*200	*5.0	150
LOD for Corresp. Compounds	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Method Blank	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND: Not detected at or above limit of detection
µg/L: Micrograms per liter (generally equivalent to parts per billion)
NA: Information not available
DHS: State of California Department of Health Services
DWAL: Drinking water action level
***MCL:** Maximum contaminant level
LOD: Limit of detection

Table 2
Summary Table of Results for EPA Method 524.2 (Concentrations in µg/L)
for Volatile Organic Compounds
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: December 27, 1990 and February 13, 1991

Monitoring Well No.	Carbon tetra-chloride	Chloro-form	1,2-Dichloro-ethane	1,1 Dichloro-ethene	Cis 1,2-Dichloro ethene	1,2-Dichloro-ethene (total)	Methylene Chloride	Tetra-chloro-ethene	1,1,1-Trichloro-ethane	Trichloro-ethene	Trichloro-fluoro Methane
MW-1	1.0	0.8	ND	18	1.5	1.5	2.6	130	1.9	50	2.6
MW-2	0.8	0.7	ND	14	1.5	1.5	4.5	140	2.5	35	1.8
MW-3	0.8	0.9	0.7	25	ND	ND	3.6	55	5.1	65	ND
MW-4	0.6	0.6	ND	11	1.9	1.9	4.0	100	1.4	32	1.7
MW-5	ND	0.7	ND	16	2.1	2.1	ND	100	1.8	34	2.2
DHS DWAL or MCL for Corresp. Compounds	*0.5	*100	*0.5	*6.0	6.0	NA	40	5.0	*200	*5.0	150
LOD for Corresp. Compounds	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Trip Blank	ND	ND	ND	ND	ND	ND	0.9/1.2	ND/0.7	ND	ND	ND
Method Blank	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND: Not detected at or above limit of detection
µg/L: Micrograms per liter (generally equivalent to parts per billion)
NA: Information not available
DHS: State of California Department of Health Services
DWAL: Drinking water action level
*MCL: Maximum contaminant level
LOD: Limit of detection

Table 3
Summary Table of Results for EPA Method 180.1
for Turbidity
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: August 14, 1991

Sample Identification	Turbidity (N.T.U.)*
MW-1	86
MW-2	100
MW-3	4.1
MW-4	96
MW-5	6.4

Limit of detection: 0.1 N.T.U.
*N.T.U.: Nephelometric Turbidity Units

Table 4
Summary Table of Results for EPA Method 418.1 for
Total Petroleum Hydrocarbons (Concentrations in mg/L)
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: August 14, 1991

Sample Identification Number	Total Recoverable Petroleum Hydrocarbons
MW-1	ND
MW-2	ND
MW-5	ND

Limit of detection: 1.0
mg/L: Milligrams per liter (generally equivalent to parts per million)

Table 3
Summary Table of Results for EPA Method 180.1
for Turbidity
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: May 14, 1991

Sample Identification	Turbidity (N.T.U.)*
MW-1	740
MW-2	780
MW-3	480
MW-4	94
MW-5	38
Limit of detection	0.1

<: Less than the indicated limit of detection (LOD)
*NTU: Nephelometric Turbidity Units

Table 4
Summary Table of Results for EPA Method 418.1 for
Total Petroleum Hydrocarbons (Concentrations in mg/L)
for Monitoring Well MW-5
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: May 14, 1991

Sample Identification Number	Total Recoverable Petroleum Hydrocarbons
MW-5	1.0

Limit of detection: 1.0
mg/L: Milligrams per liter (generally equivalent to parts per million)

Table 3
Summary Table of Results for EPA Method 180.1
for Turbidity
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Dates: December 27, 1990 and February 13, 1991

Sample Identification	Turbidity (N.T.U.)*
MW-1	6.4
MW-2	4.5
MW-3	9.6
MW-4	7.1
MW-5	1.5
Limit of detection	0.1

<: Less than the indicated limit of detection (LOD)
*NTU: Nephelometric Turbidity Units

Table 4
Summary Table of Results for EPA Method 418.1 for
Total Petroleum Hydrocarbons (Concentrations in mg/L)
for Monitoring Well MW-5
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: February 13, 1991

Sample Identification Number	Total Recoverable Petroleum Hydrocarbons
MW-5A	< 1.0
MW-5B	< 1.0

Limit of detection: 1.0
mg/L: Milligrams per liter (generally equivalent to parts per million)

Table 5
Summary Table of Results for Average Pre-Sample pH Values
at
Stoody Company
City of Industry, California
Clayton Project No. 33043.00
Sampling Date: August 14. 1991

MONITORING WELL NUMBER	pH
MW-1	5.99
MW-2	6.37
MW-3	5.91
MW-4	5.98
MW-5	6.08

APPENDIX C

WATER SAMPLING FIELD SURVEY FORMS

Clayton
ENVIRONMENTAL
CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM

Job No: 33043.00 Site: STOODY COMPANY Date: 11/1/91

Well No: MW-1 Sampling Team: LAMONTAGNE

Sampling Method: HAND BAILER

Field Conditions: Sunny, 72°F, slight breeze

Describe Equipment Decontamination Before Sampling This Well:

WASH IN ALCONOX SOLUTION
DOUBLE RINSE IN POTABLE WATER
FINAL RINSE IN DEIONIZED WATER

Total Depth of Well: 44.96 feet Time: 7:24 Depth to Water Before Purging: 32.46 feet

Volume Height of Water Column: 12.5 ft.		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		Volume To Purge
	*	.16	.65	=	8 gal	*	3	=	24 gal

Depth Purged: Total water column

Notes: No free product seen floating in drum

Time	Volume Purged	pH	Conductivity	T	Comments
9:00	0 GAL	7.22	1.81	70.2	clear on top, muddy on bottom
9:06	18 GAL	7.18	1.94	72.8	slightly cloudy
9:14	36 GAL	7.12	1.72	72.4	" "
9:24	54 GAL	7.20	1.83	73.7	" "

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Date: 11/1/91 Well No: MW-1

Time Field Parameter Measurement Begins: 11:17

	Rep #1	Rep #2	Rep #3	Rep #4
pH	7.09	7.02	7.02	7.03
Conductivity	3.27	1.73	1.71	1.69
T°F	77.2	75.1	73.9	73.1

Pre-Sample Collection Gallons Purged:	54
Time Sample Collection Begins:	11:27
Time Sample Collection Ends:	11:29
Total Gallons Purged:	55

Clayton
ENVIRONMENTAL
CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM

Job No: 33043.00 Site: STOODY COMPANY Date: 11/1/91

Well No: MW-2 Sampling Team: LAMONTAGNE

Sampling Method: HAND BAILER

Field Conditions: Sunny, 70°F, no breeze

Describe Equipment Decontamination Before Sampling This Well:

WASH IN ALCONOX SOLUTION
DOUBLE RINSE IN POTABLE WATER
FINAL RINSE IN DEIONIZED WATER

Total Depth of Well: 45.08 feet Time: 7:18 Depth to Water Before Purging: 31.29 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		Volume To Purge
13.79 ft.	*	.16	.65	=	9 gal	*	3	=	27 gal

Depth Purged: Total water column

Notes: No free product seen on water in drum

Time	Volume Purged	pH	Conductivity	T	Comments
8:03	0 GAL	7.21	1.77	62.1	very clear
8:06	18 GAL	7.56	1.71	62.1	slightly cloudy
8:10	36 GAL	7.66	1.74	64.1	less cloudy
8:13	54 GAL	7.58	1.78	63.8	" "

Clayton
ENVIRONMENTAL
CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Date: 11/1/91 Well No: MW-2

Time Field Parameter Measurement Begins: 10:52

	Rep #1	Rep #2	Rep #3	Rep #4
pH	7.04	7.02	7.00	7.01
Conductivity	2.34	1.72	1.72	1.71
T°F	76.4	74.8	72.9	72.2

Pre-Sample Collection Gallons Purged:	54
Time Sample Collection Begins:	10:56
Time Sample Collection Ends:	10:59
Total Gallons Purged:	55

Clayton
ENVIRONMENTAL
CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM

Job No: 33043.00 Site: STOODY COMPANY Date: 11/1/91

Well No: MW-3 Sampling Team: LAMONTAGNE

Sampling Method: HAND BAILER

Field Conditions: Sunny, 72°F, slight breeze

Describe Equipment Decontamination Before Sampling This Well:

WASH IN ALCONOX SOLUTION
DOUBLE RINSE IN POTABLE WATER
FINAL RINSE IN DEIONIZED WATER

Total Depth of Well: 44.96 feet Time: 7:27 Depth to Water Before Purging: 33.62 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		Volume To Purge
11.33 ft.	*	.16	.65	=	7.4 gal	*	3	=	22 gal

Depth Purged: total water column

Notes: Free product seen on water in drum

Time	Volume Purged	pH	Conductivity	T	Comments
9:28	0 GAL	7.08	2.45	75.4	clear
9:32	18 GAL	7.23	1.88	71.8	slightly cloudy
9:35	36 GAL	7.62	1.81	71.6	" "
9:38	54 GAL	7.29	1.80	72.3	" "

Clayton
ENVIRONMENTAL
CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Date: 11/1/91 Well No: MW-3

Time Field Parameter Measurement Begins: 11:37

	Rep #1	Rep #2	Rep #3	Rep #4
pH	7.02	6.97	6.93	6.95
Conductivity	3.53	1.88	1.88	1.83
T°F	79.5	76.5	75.4	74.6

Pre-Sample Collection Gallons Purged:	54
Time Sample Collection Begins:	11:45
Time Sample Collection Ends:	11:48
Total Gallons Purged:	55

Clayton
ENVIRONMENTAL CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM

Job No: 33043.00 Site: STOODY COMPANY Date: 11/1/91

Well No: MW-4 Sampling Team: LAMONTAGNE

Sampling Method: HAND BAILER

Field Conditions: Sunny, 70°F, no breeze

Describe Equipment Decontamination Before Sampling This Well:

WASH IN ALCONOX SOLUTION
DOUBLE RINSE IN POTABLE WATER
FINAL RINSE IN DEIONIZED WATER

Total Depth of Well: 48.83 feet Time: 7:15 Depth to Water Before Purging: 33.04 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		Volume To Purge
15.79 ft.	*	.16	.65	=	10.3 gal	*	3	=	31 gal

Depth Purged: total water column

Notes: No free product seen floating on water in barrel

Time	Volume Purged	pH	Conductivity	T	Comments
7:45	0 GAL	7.03	1.59	63.2	Clear on top, silt on bottom
7:48	18 GAL	7.42	1.62	61.7	less cloudy
7:52	36 GAL	7.26	1.51	63.1	" "
7:56	54 GAL	7.21	1.24	62.8	" "

Clayton
ENVIRONMENTAL CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Date: 11/1/91 Well No: MW-4

Time Field Parameter Measurement Begins: 10:37

	Rep #1	Rep #2	Rep #3	Rep #4
pH	7.06	7.02	7.05	7.04
Conductivity	2.23	1.68	1.68	1.73
T°F	80.1	75.5	73.0	72.6

Pre-Sample Collection Gallons Purged:	54
Time Sample Collection Begins:	10:45
Time Sample Collection Ends:	10:47
Total Gallons Purged:	55

Clayton
ENVIRONMENTAL
CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM

Job No: 33043.00 Site: STOODY COMPANY Date: 11/1/91

Well No: MW-5 Sampling Team: LAMONTAGNE

Sampling Method: HAND BAILER

Field Conditions: Sunny, 72°F, no breeze

Describe Equipment Decontamination Before Sampling This Well:

WASH IN ALCONOX SOLUTION
DOUBLE RINSE IN POTABLE WATER
FINAL RINSE IN DEIONIZED WATER

Total Depth of Well: 50.42 feet Time: 7:21 Depth to Water Before Purging: 32.17 feet

Volume Height of Water Column:		Diameter 2-inch	Diameter 4-inch		Volume		Purge Factor		Volume To Purge
18.25 ft.	*	.16	.65	=	12 gal	*	3	=	36 gal

Depth Purged: total water column

Notes: No free product seen on water in drum

Time	Volume Purged	pH	Conductivity	T	Comments
8:20	0 GAL	7.65	1.21	64.4	Very clear
8:26	20 GAL	7.61	1.55	67.6	Slightly cloudy
8:56	40 GAL	7.48	2.67	73.6	" "

Clayton
ENVIRONMENTAL CONSULTANTS

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
WATER SAMPLING FIELD SURVEY FORM
(CONTINUED)

Date: 11/1/91 Well No: MW-5

Time Field Parameter Measurement Begins: 11:05

	Rep #1	Rep #2	Rep #3	Rep #4
pH	7.10	7.00	6.97	6.94
Conductivity	2.24	1.80	1.75	1.73
T°F	78.1	74.9	72.9	72.0

Pre-Sample Collection Gallons Purged:	54
Time Sample Collection Begins:	11:10
Time Sample Collection Ends:	11:12
Total Gallons Purged:	55

APPENDIX D

LABORATORY REPORTS
CHAIN-OF-CUSTODY FORMS
AND QUALITY ASSURANCE DATA

Enseco
A Corning Company

Enseco - CRL
7440 Lincoln Way • Garden Grove, CA 92641
(714) 898-6370 • (213) 598-0458 • (800) LAB-1-CRL
FAX: (714) 891-5917

November 13, 1991

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-001/006
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Project: (33043.Q4) STOODY

Enclosed with this letter is the report on the chemical and physical analyses on the samples from ANALYSIS NO: G-9130513-001/006 shown above.

The samples were received by CRL in a chilled state, intact and with the chain-of-custody record attached.

Note that ND means not detected at the reporting limit expressed. The reporting limit is raised to reflect the dilution factor of the sample.

Preliminary data were provided on November 11,1991 at 4:02 P.M.

Reviewed

Denise McDonald
Approved

Enseco
A Corning Compan

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-001/005
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Date Analyzed: 2-NOV-1991
8-NOV-1991
Sample Type: LIQUID

Project: (33043.Q4) STOODY

Sample ID	TPH Recoverable mg/L EPA 418.1-L	Turbidity NTU EPA 180.1
(33043) MW-1		76
(33043) MW-2		96
(33043) MW-3	ND(1)	44
(33043) MW-4		40
(33043) MW-5	ND(1)	2.1
Blank	ND(1)	ND(0.1)

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-001
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-1

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
Dichlorodifluoromethane	ND	2.5	ND	0.5
Chloromethane	ND	2.5	ND	0.5
Bromomethane	ND	2.5	ND	0.5
Vinyl Chloride	ND	2.5	ND	0.5
Chloroethane	ND	2.5	ND	0.5
Methylene Chloride	ND	2.5	ND	0.5
Trichlorofluoromethane	2.8	2.5	ND	0.5
1,1-Dichloroethene	23	2.5	ND	0.5
trans-1,2-Dichloroethene	ND	2.5	ND	0.5
cis-1,2-Dichloroethene	4.4	2.5	ND	0.5
1,1-Dichloroethane	ND	2.5	ND	0.5
2,2-Dichloropropane	ND	2.5	ND	0.5
Bromochloromethane	ND	2.5	ND	0.5
Chloroform	ND	2.5	ND	0.5
1,1-Dichloropropene	ND	2.5	ND	0.5
1,2-Dichloroethane	ND	2.5	ND	0.5
Dibromomethane	ND	2.5	ND	0.5
1,1,1-Trichloroethane	ND	2.5	ND	0.5
Carbon Tetrachloride	ND	2.5	ND	0.5
Bromodichloromethane	ND	2.5	ND	0.5
1,2-Dichloropropane	ND	2.5	ND	0.5
1,3-Dichloropropane	ND	2.5	ND	0.5
Trichloroethene	58	2.5	ND	0.5
Dibromochloromethane	ND	2.5	ND	0.5
1,1,2-Trichloroethane	ND	2.5	ND	0.5
Benzene	ND	2.5	ND	0.5
Bromoform	ND	2.5	ND	0.5
Tetrachloroethene	170	2.5	ND	0.5
1,2-Dibromoethane	ND	2.5	ND	0.5
1,1,1,2-Tetrachloroethane	ND	2.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	2.5	ND	0.5
Toluene	ND	2.5	ND	0.5
Chlorobenzene	ND	2.5	ND	0.5
Ethylbenzene	ND	2.5	ND	0.5
p,m-Xylene	ND	2.5	ND	0.5
o-Xylene	ND	2.5	ND	0.5
Styrene	ND	2.5	ND	0.5
Isopropylbenzene	ND	2.5	ND	0.5
Bromobenzene	ND	2.5	ND	0.5

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-001
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-1

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
1,2,3-Trichloropropane	ND	2.5	ND	0.5
2-Chlorotoluene	ND	2.5	ND	0.5
n-Propylbenzene	ND	2.5	ND	0.5
1,3,5-Trimethylbenzene	ND	2.5	ND	0.5
4-Chlorotoluene	ND	2.5	ND	0.5
tert-Butylbenzene	ND	2.5	ND	0.5
1,2,4-Trimethylbenzene	ND	2.5	ND	0.5
sec-Butylbenzene	ND	2.5	ND	0.5
p-Isopropyltoluene	ND	2.5	ND	0.5
1,3-Dichlorobenzene	ND	2.5	ND	0.5
1,4-Dichlorobenzene	ND	2.5	ND	0.5
n-Butylbenzene	ND	2.5	ND	0.5
1,2-Dichlorobenzene	ND	2.5	ND	0.5
1,2,4-Trichlorobenzene	ND	2.5	ND	0.5
1,2-Dibromo-3-chloropropane	ND	2.5	ND	0.5
Hexachlorobutadiene	ND	2.5	ND	0.5
Naphthalene	ND	2.5	ND	0.5
1,2,3-Trichlorobenzene	ND	2.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-001
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Volatile Organic Compounds, EPA 524.2
Surrogate Summary

Date	Parameter (Method)	Percent Recovery	Acceptable Range
4-NOV-1991	1,2 DICHLORETHANE-D4 (EPA 524.2)	132	74-134
4-NOV-1991	TOLUENE-D8 (EPA 524.2)	102	78-126
4-NOV-1991	BROMOFLUOROBENZENE (EPA 524.2)	109	82-121

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-002
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-2

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
Dichlorodifluoromethane	ND	2.5	ND	0.5
Chloromethane	ND	2.5	ND	0.5
Bromomethane	ND	2.5	ND	0.5
Vinyl Chloride	ND	2.5	ND	0.5
Chloroethane	ND	2.5	ND	0.5
Methylene Chloride	ND	2.5	ND	0.5
Trichlorofluoromethane	ND	2.5	ND	0.5
1,1-Dichloroethene	17	2.5	ND	0.5
trans-1,2-Dichloroethene	ND	2.5	ND	0.5
cis-1,2-Dichloroethene	2.6	2.5	ND	0.5
1,1-Dichloroethane	ND	2.5	ND	0.5
2,2-Dichloropropane	ND	2.5	ND	0.5
Bromochloromethane	ND	2.5	ND	0.5
Chloroform	ND	2.5	ND	0.5
1,1-Dichloropropene	ND	2.5	ND	0.5
1,2-Dichloroethane	ND	2.5	ND	0.5
Dibromomethane	ND	2.5	ND	0.5
1,1,1-Trichloroethane	3.1	2.5	ND	0.5
Carbon Tetrachloride	ND	2.5	ND	0.5
Bromodichloromethane	ND	2.5	ND	0.5
1,2-Dichloropropane	ND	2.5	ND	0.5
1,3-Dichloropropane	ND	2.5	ND	0.5
Trichloroethene	44	2.5	ND	0.5
Dibromochloromethane	ND	2.5	ND	0.5
1,1,2-Trichloroethane	ND	2.5	ND	0.5
Benzene	ND	2.5	ND	0.5
Bromoform	ND	2.5	ND	0.5
Tetrachloroethene	170	2.5	ND	0.5
1,2-Dibromoethane	ND	2.5	ND	0.5
1,1,1,2-Tetrachloroethane	ND	2.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	2.5	ND	0.5
Toluene	ND	2.5	ND	0.5
Chlorobenzene	ND	2.5	ND	0.5
Ethylbenzene	ND	2.5	ND	0.5
p,m-Xylene	ND	2.5	ND	0.5
o-Xylene	ND	2.5	ND	0.5
Styrene	ND	2.5	ND	0.5
Isopropylbenzene	ND	2.5	ND	0.5
Bromobenzene	ND	2.5	ND	0.5

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-002
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-2

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
1,2,3-Trichloropropane	ND	2.5	ND	0.5
2-Chlorotoluene	ND	2.5	ND	0.5
n-Propylbenzene	ND	2.5	ND	0.5
1,3,5-Trimethylbenzene	ND	2.5	ND	0.5
4-Chlorotoluene	ND	2.5	ND	0.5
tert-Butylbenzene	ND	2.5	ND	0.5
1,2,4-Trimethylbenzene	ND	2.5	ND	0.5
sec-Butylbenzene	ND	2.5	ND	0.5
p-Isopropyltoluene	ND	2.5	ND	0.5
1,3-Dichlorobenzene	ND	2.5	ND	0.5
1,4-Dichlorobenzene	ND	2.5	ND	0.5
n-Butylbenzene	ND	2.5	ND	0.5
1,2-Dichlorobenzene	ND	2.5	ND	0.5
1,2,4-Trichlorobenzene	ND	2.5	ND	0.5
1,2-Dibromo-3-chloropropane	ND	2.5	ND	0.5
Hexachlorobutadiene	ND	2.5	ND	0.5
Naphthalene	ND	2.5	ND	0.5
1,2,3-Trichlorobenzene	ND	2.5	ND	0.5

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-002
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Volatile Organic Compounds, EPA 524.2
Surrogate Summary

Date	Parameter (Method)	Percent Recovery	Acceptable Range
4-NOV-1991	1,2 DICHLORETHANE-D4 (EPA 524.2)	120	74-134
4-NOV-1991	TOLUENE-D8 (EPA 524.2)	101	78-126
4-NOV-1991	BROMOFLUOROBENZENE (EPA 524.2)	104	82-121

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-003
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-3

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
Dichlorodifluoromethane	ND	0.5	ND	0.5
Chloromethane	ND	0.5	ND	0.5
Bromomethane	ND	0.5	ND	0.5
Vinyl Chloride	ND	0.5	ND	0.5
Chloroethane	ND	0.5	ND	0.5
Methylene Chloride	ND	0.5	ND	0.5
Trichlorofluoromethane	ND	0.5	ND	0.5
1,1-Dichloroethene	54	0.5	ND	0.5
trans-1,2-Dichloroethene	ND	0.5	ND	0.5
cis-1,2-Dichloroethene	ND	0.5	ND	0.5
1,1-Dichloroethane	ND	0.5	ND	0.5
2,2-Dichloropropane	ND	0.5	ND	0.5
Bromochloromethane	ND	0.5	ND	0.5
Chloroform	1.2	0.5	ND	0.5
1,1-Dichloropropene	ND	0.5	ND	0.5
1,2-Dichloroethane	1.2	0.5	ND	0.5
Dibromomethane	ND	0.5	ND	0.5
1,1,1-Trichloroethane	8.7	0.5	ND	0.5
Carbon Tetrachloride	1.3	0.5	ND	0.5
Bromodichloromethane	ND	0.5	ND	0.5
1,2-Dichloropropane	ND	0.5	ND	0.5
1,3-Dichloropropane	ND	0.5	ND	0.5
Trichloroethene	96	0.5	ND	0.5
Dibromochloromethane	ND	0.5	ND	0.5
1,1,2-Trichloroethane	ND	0.5	ND	0.5
Benzene	0.51	0.5	ND	0.5
Bromoform	ND	0.5	ND	0.5
Tetrachloroethene	76	0.5	ND	0.5
1,2-Dibromoethane	ND	0.5	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Chlorobenzene	ND	0.5	ND	0.5
Ethylbenzene	ND	0.5	ND	0.5
p,m-Xylene	ND	0.5	ND	0.5
o-Xylene	ND	0.5	ND	0.5
Styrene	ND	0.5	ND	0.5
Isopropylbenzene	ND	0.5	ND	0.5
Bromobenzene	ND	0.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-003
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-3

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
1,2,3-Trichloropropane	ND	0.5	ND	0.5
2-Chlorotoluene	ND	0.5	ND	0.5
n-Propylbenzene	ND	0.5	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5	ND	0.5
4-Chlorotoluene	ND	0.5	ND	0.5
tert-Butylbenzene	ND	0.5	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5	ND	0.5
sec-Butylbenzene	ND	0.5	ND	0.5
p-Isopropyltoluene	ND	0.5	ND	0.5
1,3-Dichlorobenzene	ND	0.5	ND	0.5
1,4-Dichlorobenzene	ND	0.5	ND	0.5
n-Butylbenzene	ND	0.5	ND	0.5
1,2-Dichlorobenzene	ND	0.5	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5	ND	0.5
1,2-Dibromo-3-chloropropane	ND	0.5	ND	0.5
Hexachlorobutadiene	ND	0.5	ND	0.5
Naphthalene	ND	0.5	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-003
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Volatile Organic Compounds, EPA 524.2
Surrogate Summary

Date	Parameter (Method)	Percent Recovery	Acceptable Range
4-NOV-1991	1,2 DICHLORETHANE-D4 (EPA 524.2)	108	74-134
4-NOV-1991	TOLUENE-D8 (EPA 524.2)	96	78-126
4-NOV-1991	BROMOFLUOROBENZENE (EPA 524.2)	97	82-121

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-004
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-4

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
Dichlorodifluoromethane	ND	2.5	ND	0.5
Chloromethane	ND	2.5	ND	0.5
Bromomethane	ND	2.5	ND	0.5
Vinyl Chloride	ND	2.5	ND	0.5
Chloroethane	ND	2.5	ND	0.5
Methylene Chloride	ND	2.5	ND	0.5
Trichlorofluoromethane	3.4	2.5	ND	0.5
1,1-Dichloroethene	21	2.5	ND	0.5
trans-1,2-Dichloroethene	ND	2.5	ND	0.5
cis-1,2-Dichloroethene	4.3	2.5	ND	0.5
1,1-Dichloroethane	ND	2.5	ND	0.5
2,2-Dichloropropane	ND	2.5	ND	0.5
Bromochloromethane	ND	2.5	ND	0.5
Chloroform	ND	2.5	ND	0.5
1,1-Dichloropropene	ND	2.5	ND	0.5
1,2-Dichloroethane	ND	2.5	ND	0.5
Dibromomethane	ND	2.5	ND	0.5
1,1,1-Trichloroethane	ND	2.5	ND	0.5
Carbon Tetrachloride	ND	2.5	ND	0.5
Bromodichloromethane	ND	2.5	ND	0.5
1,2-Dichloropropane	ND	2.5	ND	0.5
1,3-Dichloropropane	ND	2.5	ND	0.5
Trichloroethene	52	2.5	ND	0.5
Dibromochloromethane	ND	2.5	ND	0.5
1,1,2-Trichloroethane	ND	2.5	ND	0.5
Benzene	ND	2.5	ND	0.5
Bromoform	ND	2.5	ND	0.5
Tetrachloroethene	170	2.5	ND	0.5
1,2-Dibromoethane	ND	2.5	ND	0.5
1,1,1,2-Tetrachloroethane	ND	2.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	2.5	ND	0.5
Toluene	ND	2.5	ND	0.5
Chlorobenzene	ND	2.5	ND	0.5
Ethylbenzene	ND	2.5	ND	0.5
p,m-Xylene	ND	2.5	ND	0.5
o-Xylene	ND	2.5	ND	0.5
Styrene	ND	2.5	ND	0.5
Isopropylbenzene	ND	2.5	ND	0.5
Bromobenzene	ND	2.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-004
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-4

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
1,2,3-Trichloropropane	ND	2.5	ND	0.5
2-Chlorotoluene	ND	2.5	ND	0.5
n-Propylbenzene	ND	2.5	ND	0.5
1,3,5-Trimethylbenzene	ND	2.5	ND	0.5
4-Chlorotoluene	ND	2.5	ND	0.5
tert-Butylbenzene	ND	2.5	ND	0.5
1,2,4-Trimethylbenzene	ND	2.5	ND	0.5
sec-Butylbenzene	ND	2.5	ND	0.5
p-Isopropyltoluene	ND	2.5	ND	0.5
1,3-Dichlorobenzene	ND	2.5	ND	0.5
1,4-Dichlorobenzene	ND	2.5	ND	0.5
n-Butylbenzene	ND	2.5	ND	0.5
1,2-Dichlorobenzene	ND	2.5	ND	0.5
1,2,4-Trichlorobenzene	ND	2.5	ND	0.5
1,2-Dibromo-3-chloropropane	ND	2.5	ND	0.5
Hexachlorobutadiene	ND	2.5	ND	0.5
Naphthalene	ND	2.5	ND	0.5
1,2,3-Trichlorobenzene	ND	2.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-004
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Volatile Organic Compounds, EPA 524.2
Surrogate Summary

Date	Parameter (Method)	Percent Recovery	Acceptable Range
4-NOV-1991	1,2 DICHLORETHANE-D4 (EPA 524.2)	124	74-134
4-NOV-1991	TOLUENE-D8 (EPA 524.2)	95	78-126
4-NOV-1991	BROMOFLUOROBENZENE (EPA 524.2)	99	82-121

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-005
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-5

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
Dichlorodifluoromethane	ND	2.5	ND	0.5
Chloromethane	ND	2.5	ND	0.5
Bromomethane	ND	2.5	ND	0.5
Vinyl Chloride	ND	2.5	ND	0.5
Chloroethane	ND	2.5	ND	0.5
Methylene Chloride	ND	2.5	ND	0.5
Trichlorofluoromethane	2.5	2.5	ND	0.5
1,1-Dichloroethene	20	2.5	ND	0.5
trans-1,2-Dichloroethene	ND	2.5	ND	0.5
cis-1,2-Dichloroethene	2.7	2.5	ND	0.5
1,1-Dichloroethane	ND	2.5	ND	0.5
2,2-Dichloropropane	ND	2.5	ND	0.5
Bromochloromethane	ND	2.5	ND	0.5
Chloroform	ND	2.5	ND	0.5
1,1-Dichloropropene	ND	2.5	ND	0.5
1,2-Dichloroethane	ND	2.5	ND	0.5
Dibromomethane	ND	2.5	ND	0.5
1,1,1-Trichloroethane	ND	2.5	ND	0.5
Carbon Tetrachloride	ND	2.5	ND	0.5
Bromodichloromethane	ND	2.5	ND	0.5
1,2-Dichloropropane	ND	2.5	ND	0.5
1,3-Dichloropropane	ND	2.5	ND	0.5
Trichloroethene	50	2.5	ND	0.5
Dibromochloromethane	ND	2.5	ND	0.5
1,1,2-Trichloroethane	ND	2.5	ND	0.5
Benzene	ND	2.5	ND	0.5
Bromoform	ND	2.5	ND	0.5
Tetrachloroethene	160	2.5	ND	0.5
1,2-Dibromoethane	ND	2.5	ND	0.5
1,1,1,2-Tetrachloroethane	ND	2.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	2.5	ND	0.5
Toluene	ND	2.5	ND	0.5
Chlorobenzene	ND	2.5	ND	0.5
Ethylbenzene	ND	2.5	ND	0.5
p,m-Xylene	ND	2.5	ND	0.5
o-Xylene	ND	2.5	ND	0.5
Styrene	ND	2.5	ND	0.5
Isopropylbenzene	ND	2.5	ND	0.5
Bromobenzene	ND	2.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-005
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) MW-5

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
1,2,3-Trichloropropane	ND	2.5	ND	0.5
2-Chlorotoluene	ND	2.5	ND	0.5
n-Propylbenzene	ND	2.5	ND	0.5
1,3,5-Trimethylbenzene	ND	2.5	ND	0.5
4-Chlorotoluene	ND	2.5	ND	0.5
tert-Butylbenzene	ND	2.5	ND	0.5
1,2,4-Trimethylbenzene	ND	2.5	ND	0.5
sec-Butylbenzene	ND	2.5	ND	0.5
p-Isopropyltoluene	ND	2.5	ND	0.5
1,3-Dichlorobenzene	ND	2.5	ND	0.5
1,4-Dichlorobenzene	ND	2.5	ND	0.5
n-Butylbenzene	ND	2.5	ND	0.5
1,2-Dichlorobenzene	ND	2.5	ND	0.5
1,2,4-Trichlorobenzene	ND	2.5	ND	0.5
1,2-Dibromo-3-chloropropane	ND	2.5	ND	0.5
Hexachlorobutadiene	ND	2.5	ND	0.5
Naphthalene	ND	2.5	ND	0.5
1,2,3-Trichlorobenzene	ND	2.5	ND	0.5

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-005
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Volatile Organic Compounds, EPA 524.2
Surrogate Summary

Date	Parameter (Method)	Percent Recovery	Acceptable Range
4-NOV-1991	1,2 DICHLORETHANE-D4 (EPA 524.2)	125	74-134
4-NOV-1991	TOLUENE-D8 (EPA 524.2)	96	78-126
4-NOV-1991	BROMOFLUOROBENZENE (EPA 524.2)	102	82-121

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-006
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) DECON

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
Dichlorodifluoromethane	ND	0.5	ND	0.5
Chloromethane	ND	0.5	ND	0.5
Bromomethane	ND	0.5	ND	0.5
Vinyl Chloride	ND	0.5	ND	0.5
Chloroethane	ND	0.5	ND	0.5
Methylene Chloride	ND	0.5	ND	0.5
Trichlorofluoromethane	ND	0.5	ND	0.5
1,1-Dichloroethene	ND	0.5	ND	0.5
trans-1,2-Dichloroethene	ND	0.5	ND	0.5
cis-1,2-Dichloroethene	ND	0.5	ND	0.5
1,1-Dichloroethane	ND	0.5	ND	0.5
2,2-Dichloropropane	ND	0.5	ND	0.5
Bromochloromethane	ND	0.5	ND	0.5
Chloroform	0.71	0.5	ND	0.5
1,1-Dichloropropene	ND	0.5	ND	0.5
1,2-Dichloroethane	ND	0.5	ND	0.5
Dibromomethane	ND	0.5	ND	0.5
1,1,1-Trichloroethane	ND	0.5	ND	0.5
Carbon Tetrachloride	ND	0.5	ND	0.5
Bromodichloromethane	0.89	0.5	ND	0.5
1,2-Dichloropropane	ND	0.5	ND	0.5
1,3-Dichloropropane	ND	0.5	ND	0.5
Trichloroethene	ND	0.5	ND	0.5
Dibromochloromethane	1.1	0.5	ND	0.5
1,1,2-Trichloroethane	ND	0.5	ND	0.5
Benzene	ND	0.5	ND	0.5
Bromoform	1.7	0.5	ND	0.5
Tetrachloroethene	ND	0.5	ND	0.5
1,2-Dibromoethane	ND	0.5	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5
Chlorobenzene	ND	0.5	ND	0.5
Ethylbenzene	ND	0.5	ND	0.5
p,m-Xylene	ND	0.5	ND	0.5
o-Xylene	ND	0.5	ND	0.5
Styrene	ND	0.5	ND	0.5
Isopropylbenzene	ND	0.5	ND	0.5
Bromobenzene	ND	0.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE

Analysis No.: G-9130513-006
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID
Date Prepared: 4-NOV-1991
Prep Method: EPA 5030 By: SW
Date Analyzed: 4-NOV-1991 By: SW

Project: (33043.Q4) STOODY
Sample ID: (33043) DECON

Volatile Organic Compounds, EPA 524.2

Units: ug/L

Parameter	Sample Result	Sample RL	Blank Result	Blank RL
1,2,3-Trichloropropane	ND	0.5	ND	0.5
2-Chlorotoluene	ND	0.5	ND	0.5
n-Propylbenzene	ND	0.5	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5	ND	0.5
4-Chlorotoluene	ND	0.5	ND	0.5
tert-Butylbenzene	ND	0.5	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5	ND	0.5
sec-Butylbenzene	ND	0.5	ND	0.5
p-Isopropyltoluene	ND	0.5	ND	0.5
1,3-Dichlorobenzene	ND	0.5	ND	0.5
1,4-Dichlorobenzene	ND	0.5	ND	0.5
n-Butylbenzene	ND	0.5	ND	0.5
1,2-Dichlorobenzene	ND	0.5	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5	ND	0.5
1,2-Dibromo-3-chloropropane	ND	0.5	ND	0.5
Hexachlorobutadiene	ND	0.5	ND	0.5
Naphthalene	ND	0.5	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5	ND	0.5

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-006
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Volatile Organic Compounds, EPA 524.2
Surrogate Summary

Date	Parameter (Method)	Percent Recovery	Acceptable Range
4-NOV-1991	1,2 DICHLORETHANE-D4 (EPA 524.2)	102	74-134
4-NOV-1991	TOLUENE-D8 (EPA 524.2)	83	78-126
4-NOV-1991	BROMOFLUOROBENZENE (EPA 524.2)	85	82-121

Enseco
A Coming Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-001/006
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Matrix Spike/Matrix Spike Duplicate Report

Sample Number	Parameter (Method)	Units	Observed Concentration Sample	MS	MSD	Amt. Spiked	% Recovery MS	MSD	Avg.	% RPD
9129725-004	1,1-DICHLOROETHENE (EPA 524.2)	ug/L	ND	5.6	5.8	7.0	80	83	82	4
9129725-004	TRICHLOROETHENE (EPA 524.2)	ug/L	ND	5.1	5.1	5.0	102	102	102	0
9129725-004	BENZENE (EPA 524.2)	ug/L	ND	4.8	4.8	5.0	96	96	96	0
9129725-004	TOLUENE (EPA 524.2)	ug/L	ND	8.9	9.2	10.0	89	92	90	3
9129725-004	CHLOROBENZENE (EPA 524.2)	ug/L	ND	9.5	9.7	10.0	95	97	96	2

Matrix Spike/Matrix Spike Duplicate Report Cross-Reference

QC Batch	Date	Parameter (Method)	Sample Nos.
9129725-004	2-NOV-1991	1,1-DICHLOROETHENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
	2-NOV-1991	TRICHLOROETHENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
	2-NOV-1991	BENZENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
	2-NOV-1991	TOLUENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
	2-NOV-1991	CHLOROBENZENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006

Enseco
A Corning Company

Laboratory Report

CLAYTON ENVIRONMENTAL CONSULTANTS
5785 CORPORATE AVENUE
CYPRESS, CA 90630
ATTN: MR. ANDRE LaMONTAGNE
Project: (33043.Q4) STOODY

Analysis No.: G-9130513-001/006
Date Sampled: 1-NOV-1991
Date Sample Rec'd: 1-NOV-1991
Sample Type: LIQUID

Laboratory Control Sample Report

QC Batch	Parameter (Method)	Amt. Spiked	Units	Avg. Spike Recov.	Acceptable Range	Rel. Pct. Diff.	Acceptable Range
L91306001	TURBIDITY (EPA 180.1)	5.0	NTU	99	80-120	2	20
L91315010	TPH RECOVERABLE (EPA 418.1-L)	8	mg/L	100	55-133	5	13
L91309036	1,1-DICHLOROETHENE (EPA 524.2)	7.0	ug/L	84	64-116	5	13
L91309036	TRICHLOROETHENE (EPA 524.2)	5.0	ug/L	101	80-117	2	15
L91309036	BENZENE (EPA 524.2)	5.0	ug/L	98	81-119	4	14
L91309036	TOLUENE (EPA 524.2)	10.	ug/L	92	77-120	6	12
L91309036	CHLOROBENZENE (EPA 524.2)	10.	ug/L	96	81-121	1	14

Laboratory Control Sample Report Cross-Reference

QC Batch	Date	Parameter (Method)	Sample Nos.
L91306001	2-NOV-1991	TURBIDITY (EPA 180.1)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
L91309036	2-NOV-1991	1,1-DICHLOROETHENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
		TRICHLOROETHENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
		BENZENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
		TOLUENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
		CHLOROBENZENE (EPA 524.2)	G-9130513-001
			G-9130513-002
			G-9130513-003
			G-9130513-004
			G-9130513-005
			G-9130513-006
L91315010	8-NOV-1991	TPH RECOVERABLE (EPA 418.1-L)	G-9130513-003
			G-9130513-005

Enseco
A Corning Company

[ ] 7440 Lincoln Way, Garden Grove, CA 92641, (714) 898-6370
[ ] 2810 Bunsen Ave., Unit A Ventura, CA 93003, (805) 650-0546
[ ] 2325 Skyway Dr., Unit K, Santa Maria, CA 93455, (805) 922-2776
[ ] 9537 Telstar Ave., Unit 118, El Monte, CA 91731, (818) 442-8400
[ ] Mobile Labs, (800) ENSECO-8

CHAIN OF CUSTODY RECORD

Date 11/1/91 Page 1 of 1

Lab Number 9130513

CLIENT Chevron

ADDRESS

Study 33043 Q4

PROJECT NAME

CONTRACT / PURCHASE ORDER / QUOTE #

PROJECT MANAGER Andre LaMontagne

PHONE NUMBER 714 229 4866

SITE CONTACT

ANALYSES: 524.2, 418.1, 186.1

Sample No. / Identification	Date	Time	Lab Sample Number	SAMPLE TYPE LIQ.	AIR	SOLID	No. of Containers	524.2	418.1	186.1						Sample Condition/ REMARKS
33043 MW 1	11/1	A.M.		X			4	X		X						
33043 MW 2	↓	↓		X			4	X		X						
33043 MW 3	↓	↓		X			5	X	X	X						
33043 MW 4	↓	↓		X			4	X		X						
33043 MW 5	↓	↓		X			5	X	X	X						
33043 Dicon	↓	↓		X			2	X								

SAMPLERS: (Signature) [signature]

Relinquished by: (Signature) [signature]

Received by: (Signature) | Date | Time

Received by: (Signature) | Date 1-1 | Time 1306

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Enseco Terms and Conditions, unless a contract or purchase order has been executed and is cited above.

Relinquished by: (Signature) | Date | Time | Received for Laboratory by: [signature]

RECEIVED Date	RECEIVED Time	ACCEPTED Date	ACCEPTED Time
11-1-91	1306		

Method of Shipment:

Special Instructions:

Fax Results 714 229 4866 CRWQCB Reg'ts.

Please run 524.2 within 7 days of sampling

SAMPLE DISPOSITION:

1. Storage time requested:__________days (Samples will be stored for 30 days without additional charges; thereafter storage charges will be billed at the published rates.)

2. Sample to be returned to client: Y N (Enseco will dispose of unreturned samples at no extra charge. Disposal will be by incineration wherever possible; otherwise, as appropriate, according to legal requirements.)

ENS—1145

DISTRIBUTION: White with report, Yellow to Enseco, Pink to Courier, Gold to Sample Control